

SEQUENCE LISTING

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Seq ID 6

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Seq ID 7

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Seq ID 8

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Seq ID 9

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Seq ID 10

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Seq ID 11

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Seq ID 12

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Seq ID 13

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Seq ID 16

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Seq ID 18

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Seq ID 19

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Seq ID 20

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Seq ID 21

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Seq ID 22

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Seq ID 24

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1170

Seq ID 25

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Seq ID 31

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Seq ID 42

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Seq ID 47

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Seq ID 70

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Seq ID 119

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Seq ID 122

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Seq ID 123

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Seq ID 125

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Seq ID 126

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Seq ID 127

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Seq ID 128

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Seq ID 129

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Seq ID 130

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Seq ID 131

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Seq ID 132

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Seq ID 133

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Seq ID 134

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Seq ID 135

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Seq ID 136						
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Seq ID 146						
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Seq ID 147						
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Seq ID 148						
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Seq ID 151						

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Seq ID 163	
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Seq ID 169	
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Seq ID 172	
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Seq ID 173	
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Seq ID 174	
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Seq ID 176	
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Seq ID 177	
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Seq ID 178	

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 cattca 186

Seq ID 179

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 VLDSKKGQVTIKITTTQTNANKSETTTTTTTTTNDQAQTLQEQASKMISVLTNCPWVNTAHNSNGGAPWNLTGTV
 CQVFATEFSAVTSMIKNAQEIVTQAQSLNNPQSNQNAFKDFNPYTSADRAFAQNMNLNHAQAQAKMLELADQMKDL
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 NNGAMNGIGVQIGYKQFFGEKRRWGLRYYGFFDYNHAYIKSSFFNSASDVFTYGVGTDVLYNFINDKATKNNKISF
 GVFGGIALAGTSWLNSQYVNLATFNNFYSAKMNVANFQFLFNLGLRMNLAKNKKKASDHVAQHGVGLGVKIPTINT
 NYSSLGLGTQLQYRRLYSVYLNYPAY

Seq ID 180

MAKEIKFSDSARNLLFEGVRQLHDAVKVTMGPRGRNVLIQKSYGAPSIITKDGVSVAKEIELSCPVANMGAQLVKEV
 ASKTADAAGDGTATVLAISIFKEGLRNITAGANPIEVKRGMDKAAEAIINELKKASKKVGKKEITQVATISAN
 SDHNGLDIADAMEKVGKDGVITVEAKGIEDELDDVVEGMQFDRGYLSPYFVINAEMKTAQLDNAYILLTDKISS
 MKDILPLLEKTMKEGKPLLI LAEDIEGEALTTLVUNKLRGVLNIAAVKAPGFGDRRKEMLKDIAITLGGQVISEEL
 GLSLENAEVEFLGKAGRIVIDKONTTIVDGKGHSHDVDRVAQIKTQIASTTSYDKEKLQERLAKLSGGVAVIKV
 GAASEVEMKEKKDRVDDALSATKAAVEEGIVIGGGAALIRAAQKVHLNLHDEKVGYEIIMRAIKAPLAQIAINAG
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Seq ID 181

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 IESPNGLDVKRFIEKPSLDKAIEFQKSGGFYFNSGMFVFOAGVFLDELKKHAPTILKGCERAFESLENAYFFFEKKI
 ARLSEKSMQDLEDMSIDIALMQQSHKIKMVELNAKWSDLGNFALFEEAANEPKENVSLNQTVPFAKESENNLFVS
 HKVSALLGVENLAVIDTKDALLIAHKDAKDLKALVNEVETNNQELLQTHTKVYRPGWSYEVLEHESGCVKVKILEV
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Seq ID 182

MAEWKTDTEEVKEVVKCREFKRSLQEEKCSFFIKDLDYSYALKIIVERRKIEHQEQEAIIEKLRRAKKKRSSFWGSF
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 SSKLDRTTTTKEQEFKNELEDLMPGFRGGTDTLSGDELEHMASFRGQEFKNELEDLMPSSLGVHSDYDESINLAKKN
 CVKNCKKALGDFTEKIKESPNDLNAINAEAFNHLETELERATENLSQKIAPILERYENDKRQKLGYGEFLEKEKEGF
 MVDEQNPYPPEEVRFNELRLAEFESVFSATVPLEDLDPACAHALKALEATLKNRDLGFDATLEQIAKGFIPKGY
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Seq ID 183

MNTYAQESKRLRLTKIGADGRCVIEDNFFTPPFKLMAPPYKDDLAIEIMLLAVSPGMMRGDAQDVQLNIGPNCKLR
 ITSQSFEKIHNTEGDFASRDMHIVGGENAFLDFAPFLIPFENAHFKGNTTISLRSSSQLLYSEIIVAGRVARNEL
 FKFENRLHTKISILQDEKPIYYDNTIILDPKTITDLNMMCMFDGYTHYLNVLVNCPIELSGVRECIEESEGVDAVSE
 TASSHL CVKALAGSGEPLHLREKIARLVQTQTTQKV

Seq ID 184

MKKISRKEYVSMYGPTTGDKVRLGDTDLIAEVEHDYTIYGEELKFGGGKTLREGMSQSNNPSKEELDIIITNALIV
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 VTTMIGGGTGPADGTNATTITPGRNRLKWMRLAAEYSMNLGFLAKGNASNDASLADQIEAGAIGFKIHEDWGTTT
 SAINHADVADKYDVQVAIHDTLNEAGCVEDTMAALAGRTMHTFHTEGAGGGHAPDIKIVAGEHNILPASTNPTI
 PFTVNTAEAHMDMLMVCHLDKSIKEDVQFADSRIRPQTIAAEDTLHDMGIFSITSSDSQAMGRVGEVITRTWQTA
 DKNKKEFGRLKEEKGDNDFRIKRYLSKYTINPAIAHGISEYVGSVEVGKVADLVWSPAFFGVKPNMIKGGFIA
 LSQMGDANASIPTPQPVYIREMFAHGGKAKYDANITFVSQAAYDKGIKEELGLERQVLVFNKCRNITKMDQFNDT
 TAHIEVNPETYHVFDGKEVTSKPNKVSILAQLFSIF

Seq ID 185

MSMEFDAVIIGGGVSGCATFYTLSEYSSSLKRVAVEKCSKLAQISSAKANSQTIHDGSIETNYTPEKAKKVRLSA
 YKTRQYALNKGQNEVIFETQKMAIGVGDEECFMMKKRYESFKEIFVGLLEEDKQKIKELEPNVILGANGIDRHN
 IIGHGYRKDWSTMNFAKLSNFVEEALKLPNNQVFLNFKVKKIEKRNPTYAVISEDASEVYAKFVLVNAGSYALP
 LAQSMGYGLDLGLGVAGSFYFVDPDLLRGKVYTVQNPPLPFAAVHGDPAVIGKTRIGPTALTMPKLERNKCWLK
 GISLELLKMDLNKDVFKIAFDLMSDKIRNYVFKNMVFEPLIIGKRKFLKDAQKIIPSLSLLEDLEYAHGFGEVRPQ
 VLDRTRKRLLELGEKKICTHKGITFNMTPSPGATSLQNALVDSQEIAYLGESEFELERFYKDLSPPELEN

Seq ID 186

MRYFLVVFLFLFVGCTKKDFTLKDLSLPQEASSYLASSQNGSNNNQSIDPQALRENKESYLKAWYSPWLDKMKVKS
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 RYQNSLIFQGTPLVLI THFNLDKTYAHIQSSFFVYGWIKVSDLVYMHDKDIELLTHLKDYVMPIDKIPLYTDYGDYF
 TNARVGEFLFALIPQSOKTPQKPKQKELKAYGFLRDAKGYAALQSVILEEKDFVFPKAFNSENMAFYFIDTMLGQKY
 GWGGLGNRDCSAFTRDSPANFGILLPRNSYAQSRYANNYVDLSSMKAKEKEDYILKNATPFGTLIYLKGHIMLYL
 GAHNHQAIVAHSIWSVQTQKHFKTLSHKIGGVVITSLWLAEHNGAFSCKKLLIDRVLGMSDLKDFVNKTSSPLNA
 N

Seq ID 187

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 DDDENSVDSSKDDNEEDEENEERKKVSEKDKRVEKVQESFKALDKAKKEWLKALEAPIDEREDLVRSITLA
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 QVPEATMVSVMYMDLKKLFLTKEASEEGFDLAPNKLKEILEQIKRGKLISDRAKNMAKSNLRLVVSIAKRFTSRGL
 PFLDLIQEGNIGLMKAVDKFEHEKGFKFSTYATWWIKQAISSRAIADQARTIRIPIHMDITINRINKVMRKHIQENG
 KPDLELVAAEEVGLSLDKVKNVIKVTKEPISLETVPVGNDDGKFGDFVEDKNIVSSIDHIMREDLKAQIESVLDQL
 NEREKAVIRMRFGLLDDSDRTLEEIGKELNVTRERVRQIESSAIKKLRSPQYGRILRNLYRI

Seq ID 188

MVQKIGILGAMREBITPILELFGVDFEEIPLGGNVFHKGVYHNKEIIVAYSKIGKVHSTLTSTTSMILAFGVQKVL
 SGVAGSLVKDLKINDLLVAIQLVQHDVDSLAFDHPGFIPESAFIETSESLNALAKEVANEQHIVLKEGVIASGD
 QFVHSKERKEFLVSEFKASAVEMEGASVAFVQCQKFGVPCCVLRISDNADDEANMSFADFLEKSAQTSAKFLKSMV
 DEL

Seq ID 189

MSFRINTNIAALTSHAVGVQNNRDLSSSLEKLSSGLRINKAADDSSGMAIADSLRSQSANLGOAIRNANDAIGMVQ
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 SNATVKASIGSTSSDKIGHVRMETSSFSGAGMLASAAQNLTEVGLNFKQVNGVNDYKIETVRISTSA GTGIGALS
 EIINRFSNTLGVRSYVNMATGGTPVQSGTVRELTINGVEIGTVNDVHKNDADGRLTNAINSVKDRTGVEASLDIQ
 GRINLHSIDGRAISVHAASASGQVFGGNGFAGISGTQHAVIGRLTLTRTDARDIIVSGVNFVSHVGFHSAQGVAEYT
 VNLRAVRGIFDANVASAAGANANGAQAETNSQIGAGVTSLKGAIVMDMADSARTQLDKIRSDMGSVQMELVTTI
 NNISVTVQNVKAESQIRDVDFAEESANFSKYNILAQSGSFAMAQANAVQONVLRLLQ

Seq ID 190

MKKNILNLALVGALSTSLMAKPAHNANNATHNTKKTDDSSAGVLATVDGRPITKSDFDMIKQRNPNFDFDKLKEK
 EKEALIDQAIRTALVENEAKTEKLDSTPEFKAMBAVKKQALVEFWAKKQAEVKKVQIPEKEMQDFYNANKDQLF
 VKQEAHARHILVKTEDEAKRIISEIDKQPKAKKEAKFIELANRDTIDPNSKNAQNGDGLGKFKQKNQMAPDFSKAAF
 ALTPGDTYTKTPVKTEFGYHIYILISKDSPVTTYEYQAKPTIKGMLQEKLFQERMNQRIEELRKHAKIVINK

Seq ID 191

VRYIKFFKELNNKNVNLVGGKNASIGEMFQELVPIGKVPDGFATTSEAYWYLLEQGGAKQKIIELLENVDATFID
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 IYIKSCLASLFTDRAISYRASRGFDHLKVALSVGVQKMRADKGSAGVMFSIDTETGFKDAVFITSAGLGENVV
 GGTINPDEFYVFKPTLEQNKRPPIKQRLGNKTQKMVYAPRGSEHPTRNIKTTKKEWQSFSLSDEDVLILAKYAIET
 EKHYSEAKQYRPMDEWAKDGESGEIFIVQARPETVQSQSKEESQVFEKFKFKNPNEKKEIILQGRAIGSKIGS
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 NEENPMLGYRGASRYYESYNEAFSWECEALALVREEMGLTNMKVMIPLRTIEEGKVLBI LRKNNLESKNGLE
 IYIMCELPVNVILADDFLSLFDGFSIGSNDLTQLTLGVDRDSELVSHVFDERNEAMLKMFKAIBACKRHNKYCGI
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Seq ID 192

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 FSDDEIGAGLPLWLPKGARLRKRIEDLLSQALLRGYEPVKGPPEILKSDVWKISGHYDNYKENMYFTTIDEQYEG
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 EVSF

Seq ID 193

VKRILFFLVATTFLLLRAETDSATINTTVDPNVMFSESSTGNVKKDRKRVLKSVMNLEKERVKNFNRYSETKMSKGD
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YDGYIKYILISMVRISQKEKARKVDAIVLKKMEBQAEKOTKAAFQKRSSGELESHTDSPEFISSSKRTQNASNSDLN
SMTNANALKETASKEPEASSKKEKSKKKRRLSKKEKQQQALQOEFKQISDSSKSEK

Seq ID 194

MKEKNFWPLGIMSVLILGLGIVVFLVVFALKNSPKNDLVYFKGHNEVDLNFNAMLKTYENFKSNYRFLVGLKPLIK
SPKTPILPYPSKGTGDKRLQENLLNNALEKSNLYAQLOPLKPALDSFNIQVYLAFYPSPSQPRWLGTLDCKN
ACEPLKFDLLES DKMGYKILFKFVFKNKEELILEQLAFFKQRI

Seq ID 195

MAYFLEQTDSEIFELIFEYKQNEHLEMIASENYTFASVMEAMGSVLTNKYAEGYPNKRYGGCEVVDKIESLAI
ERAKKLFNCQFANVQAHSGSQANNAVYHALLKPYDKILGMDLSCGGHLTHGAKVSLTGKHYQSFSYGVNLDGYIDY
EEALKIAQSVKPEIIVCGFSAYPREIDFKKPREIADVEGALLLGDIAHVAGLVVTGEHAHPFPHCHVVSSTTHKTL
RGPRGGIILTNDDEEIAAKIDKAIFFPGTQGGPLMHVIAAKAVGFKENLKPEFKAYAQLVKSNMQVLAKALKEKNHKL
VSGGTSNHLILMDFLDKFYSKGDADIALGNAGITVKNKNTIPGETRSPFVTSIGIRIGSAALSARGMGAKEFEIIGNK
ISDILNDINNVSILQHVKEELKAMVNQFPVYHQPIF

Seq ID 196

MKITYCDALIIGGGLAGLRASIAKQKGLNTIVLSLVFVRRSHSAAAQGGMQASLANAKKSEGDNEDLHFLDITVKG
SDWGCQQVARMFVTTAPKAIRELASWGVPTWTRIKKGRPAVVNGEHVTITERDDRHGYILSRDFGGTKKWRTCFT
ADATGHTMLYAVANEALHHKVDIQDRKDMLAFIHDNKCYGAVVRDLITGEISAYVSKGTLTATGGYGRVYKHTTN
AVICDGAGAASALETVGAKLGNMEAVQFHPTALVPSGILMTEGCRGDGGVLRDKFGRRFMPAYEPEKKELASRDVV
SRRILEHIQKGYGAKSPYGDHVLWDIAILGRNHVEKNLDRDVIAMTFAGIDPADSKEQTKDNMQGVANEPEYGO
AMAKQKGWIPKPMQHYSMGGVTRNPKGETHLKGLFCAGEAACWDLHGFNRLGGNSVSEAVVAGMIIGDYFASHCL
EAQIEINTQKVEAFIKESQDYMHFLHNEGKEDVYEIRERMKEVMDEKVGVFREGKRLKEALKELQELYARSKNIC
VKNKVLHNNPELEDAYRTKKMLKLALCITQGALLRTERGAHTRIDYPRDDEKWLNRTLASWPSAEQDMPTIEYE
ELDVMEKMEISPDFRGYKKGNFIPHPKKEERDABILKTIIELEKLGKDRIEVQHALMPFELQEKYKARNMRLEDEE
VRARGEHLYSFNVHELLDQHNANLKEGHE

Seq ID 197

MKDSFLFTSESVTEGHPDKMADQISDAVLDIYIERDQKAKVACETLVSNFGCMITGELKTSVYAPMQEIAREVVK
IGYTDALYGFDRSAAVLNGVGEQSPDINQGVDRDGEIGAGDQGLMFGYACKETETLMPLPIHLAQHQLTFALAQK
RKDNTLPFLRPDGKSQVSVRYENNKPVSIDTIVISTQHSPEVSQKHLKEAVIEEIVYKVLKEYLHNDIKFFVNPT
GKFVIGGPQGDAGLTGRKIIIVDTYGGSCPHGGGAFSGKDPSKVDRSAAYAARYVAKNLVASGVCDKATVQLAYAIG
VIEPVSIYVNTHTNTSKYSSAELEKCVKSVFKLTPKGIIESLDLLRPIYSLTSAYGHFGRELEEFTEWKTNKAEIK
AFFKR

Seq ID 198

MMKIVIDLMGADHGVLPVIEGVSRALENKSFSTVLVGDKDKATPFIKSELASKVEMIHTQDYIKMEEAATEAIKRK
ESSIYLGMDILKNGADALISAGHSGATMGLATLRLGRIGKVERPAICTLMPVSGKRPVLLDAGANTDCKPEYLID
FALMGYEYAKSVLHYDSPKVGLLSNGEEDIKGNMLVKETHKMLKAYDFFYGNVEGSDIFKGVVDVVCDGFMGNVV
LKTTEGVASAIGSIFKDEIKSSFKSKMGALMLKNAFDILKQKTDYAEGGAPLLGVNKSVTIISHGKSNARAIECAI
YQAISAVESQVCLRITQAFESLKPSVSQSDQDA

Seq ID 199

MEFYASLKSIAMHVPSEVRKNAEFQQFLDTSDEWIEKRTGIKERRFANDEEKSSDLGVIAAKQAIERAHLTPKDID
LVVVATLSPDFLAMPSTACVLSAKLGIENKPAFDISAACFGFIYLLSVAKAYVESGMYENVLIVGAERTSSVLDK
DRGTCILFGDGAGACVIGRTKRLKESILDVQISANGNFSNYLYTPRTLKPTPFNAKEEASEPFLCMKGNEVFKLAV
KTLKLDVEMILEKNALKPEDVRLFIPHQANFRIIQAVREHLDFKDEQVVLTVHKYGNNTSAASIPMAMGEAYEEGRL
KKGDLMLLDAFGGGLTWGSALVYFGGS

Seq ID 200

MSNQYETFQTEINQLLDLMIHSLYSNKEIFLRELVSNASDALDKLNYLMLTDEKLKGLNTTPSIHLSFDSQKKTLT
IKDNGIGMDKNDLIEHLGTIAKSGTKNFLSALSAGDKKKDSALIGQFGVGFYSAFMVASKIVVQTKKVNSDQAYAWV
SDGKGKFEISECVKDEQGTETITFLKDEDSHFASRWEIDSUVKKYSEHIPFPIFLTYTDTKHEGEGDNQKEIKEEK
CEQINQASALWKMKNKSELKDKDYKEFYQSFAHDNSEPLSYIHNKVEGSLEYTTLFYIPSTAPFDMFRVDYKSGVKL
YVVRVFTITDDDKELLPYSLRFVKGVIDSEDLPLNVSREILQONKILANIRSASVKILSEIERLSKDEKNYHKFYE
PFGKVLKEGLYGDFFENKEKLELLRFYSKOKEKLISLKEYKENLKENQKSIYYLLGENLDLLKASPLLEKYAQKGY
DVLILLSDEIDAFVMPGVNEYDKTPFKDASHSESLKELGLEETHDEVKDQFKDLMKAFFENLKDEIKGVELSSHLTS
AVALIGDEQNAMMANWMRQMGQSVPEKKTLELNPNHAILQKLLKCEDKEQLSAFIWLLYDGALEKALGALKDAKS
FNERLNSVLLKAL

Seq ID 201

VLGNVKKTLFGVLCGLTCLRGLMAEPDAKELVNLGIESAKKQDFAQAKTHFEKACELKNGFGCVFLGAFYEEGKG
VGKDLKKAIQFYTKGCELDNDGYGCNLLGNLYYNGQGVSKDAKASQYYSKACDLNHAEGCMVLGSLHHYGVGTPKD
LRKALDLYEKACDLKDSGPCINAGYIYSVTKNFKEAIVRYSKACELKDGRCYNLGMQYNAQGTAKDEKQAVENF
KKGCKSSVKEACDALKELKIEL

Seq ID 202

MRKKGMFEKIQKEWLSNIQKDLLSGFVVGLSVIPETAGFAIMVGLDVGVAFYTTTFYMAFVLSLFGARKAMISAAAG
SVALILVGVVKNYGLYAGVATLMAGVLQILLGYLKIGNLLRFIPQSVMYGFVNALGILLMEQFKFLQNLQNLGVF
VLLAIGILIIYLPFLITTKIPSNLIIICILIVSAIALIFDMHAPNLGSIHQGVSGFHFIIIPKNLDFKIMIELLPYAL
SLALVGTIESLLTAKTLDVILKDGVS DKNKETKAQGLGNIISGLLGGMTGCALVGQSIINAKSGAKTRLSTFFAGF
SLMVLILVFNEYVVKIPIVAVVAVMVMISFTTFNFQSIINIKKIKLYDTLNMILLVAVVLYTHNLAIGVVVGVLVN
ALWIKSKGIA

Seq ID 203

MKKTILLSLMVSSLLAENDGVFMSVGYQIGEAQQVQKNTGGEIQKVSNAZENLNNLLTRYNELKQTASNTNSSTAQA
IDNLKESASRLKTTTPNSANQAVSSALSSAVAMQVIVSNLANNSLPTSEYNKINAISSQLQNTLENKNNDLKIEND
YDHLITQASTIINTLQSQCPGIDGGNGKFWGINASGNACNIFGNTFNAITSMIDSAKKAADARRTAPESPNQPSA
FNNADFNKNLNQVSSVINDTISYLGKDNLATIYNTLQKTPDSKGFQSLVSRSSYSYSLNETQYSEFQTTTKEFGHN
PFRSVGLINSQSNNGAMNGVGVQLGYKQFFGKNKFFGIRYIAFFDYNHAYIKSNFFNSASNVFTYAGSDLLNFI
NGGSDKNRKVSFGIFGGIALAGTTWLSNQFMNLKTTNSAYSAKINNTNFQFLFNTGLRLQGIIHHGVELGVKIPTIN
TNYYSFMGAKLAYRRLYSVYFNYVLAY

Seq ID 204

MGVKFLKILVCGLFFWLSNAHLWGKQDNSFLGVAEKAYKSGNYSKATSYFKKACNDGVSEGCTQLGIIYENGQGTR
IDYKKALEYKTAQACDDREGCFGLGGLYDEGLTQNYQEAIDAYAKACVLKHPESCYNLGIYDRKIKGNADQA
VTYYQKSCNFDMAKGCYVLGVAYEKGFLEVKQSNHKAIVYLLKACRLDDGQACRALGSLFENGDAGLDEDFEVAFD
YLQKACGLNNSGGCASLGSMYMLGRYVVKDPQKAFNFFKQACDMGSAVSCSRMGFMYSQGDVAVPKDLRKALDNYER
GCDMGDEVGCFALAGMYNMDKDKENAIMIYDKGCKLGMKQACENLTCLRGY

Seq ID 205

MELETHLSKYFTLAFTHKSMSLEMRKLAINSNATLKEFLQTIKNHCPNIKECMVLSTCNRFEIYASLKHGANTNE
QKNALLKILAQNKKMSVSDLEKCVLMNTDES AVHVFVSCSSLDLVVGETQITGQMKNAKFAFEKFC SKDLTR
LLHFAFKCAAKVRNLTGISKQGVSISSVAVKEALNIFEKERIKDKKALVIGLGEMAQLVIKHLNKKQFEALILGRN
AAKFEDFIKELEBPKKVSFQNIENLNAYINEYELLFCATSSPHFIVQNRMLKETIFRFRWFDLAVPRNIEKPVLDN
IFLYSVDLEPMVRENVENRQESRMRAYEIVGLATMEFYQWIOSLEVEPVIKDLRELARISAQKELQKALKKRYVP
KEYENNIKILHNAFNTFLHNPTIALKKNAQKEESDVLVGAIKNLFLNLDKSNANHAQNLNLYKCEYYEE

Seq ID 206

MFIVAVLMLAFLIFVHELGHFTIARICGVKVEVFSIGFGKLCFFKLFGTQFALSILPLGGYVKLGMDKEENG MN
ETTDSDSYAQKSPFQKLWILFGGAFFNFLFAILVYFFLALGGEKVLLEPVIGDLKNALEAGLLKGDKILSINHKKIA
SFREIRSVVARARGELVLEIERNHQVLEKRLTPKIVAVISDSNDPNEMIRYKAIGIKPDMQKMGVVSYSLFQAF EK
ALSRFKEGVVLIVDSLRLIMGSSSVKELSGVVGIVGALSHANSLSMILLFGAFLSINLGIILNLLPIPALDGAQML
GVVFNIFHITLPTPIQNALWLAGVGLVFMFLGLFNDLTRLL

Seq ID 207

MLLKNASFYDDEVLRADIRLKDLSLITEIKENLSPINNEEVIECRDLFVLPSFIDLSVTGLEGYENLKQKAFKGGV
GLLNVFNCQQSGIKNIMATKNNQLADIATLKNKGGEILIIAPSDAFELISHYAKSYNLP LLISLENSFEALNSGEL
AYELQGNFVENAFENTRLVRFMESRALQIPVLLDKVNSITTLKLIKAFNDLGAKLQAQTPLSHLVLDESVEYEDYE
PRFKIAPFLRDKESQNALKEALKNNELIAMLTSLSHASKNSNAQFEESAFGCESIEDAFSVAYTFLVQKKVISFQQL
IKVMAINQAKFLKLNAGEVKENQLANLMIVDLNAQTRVSNQNSPFYGLLEYGEVQRMILKGQTTFIKENACKKS

Seq ID 208

LKIAIVRLSALGDIIVSAVFLAVIKECLPNAQIEWFVDERFSAILEHSPYIDKLHPIALKSALKTLNPLKIFKLFK
SLRAYEYDIIIDMQGLVKSALITQMLKAPKKVGFYASAREGLSMFFYSQKVSIAYPEVLKRNFTLLSHALNLPQ
KEISKEISESLSSRAKAFSYQPSPKIDALNLNKNPKILFILETSKINKTYPIERFKELALILENFQICLLWHADE
YKATTLYHALKHQRDVLLLPKLTLEVKALLFKMDLIIGDGTGITHLAWALQKPSITLYGNTFMERFKLESPI NVS
LTGNSNANYHKKDFSIOINIEPKKIKECVLNILKEKE

Seq ID 209

MKKFKKKPKSIKRSHQNKTIKRLPLWLMPLLSGFASGVYANNLWDLNPKVGGYVHVWKGSYQCAWWEFAGCL
KNVWGANHKG YDAGNAANYLSSQNYQAI SVGSGNETGTYSLSGFTNYVGGNLTINLGNSVVLDSLGSNSFTSYQGY
NQGKDDVTFTVGAINLNGTLEVGNRVGSGAGTHGTATLNLNANKVNINSNINAYKTSQVNIGNANSVITIGSVSL
SGDVCSSLASVIGIGANCSTSGPSYSFKGTTNATNTAFSNASGSFTFEENATFSGAKWNGGTYTFNKEFSATNNTAF
SSGSFLNKGVSFFNGTSFSNASYTFDNQATFQNSSENGGTFTFNNQTNPTNNAQHPQIQNSSFSGNATTLKGFVNF
QQAFNNSNHQLTIQNASFNATFNNTGKITIEKDA SFNNTTFNTSVDTNNMSVTGGVTLSGKNDLKNGSTLDFGSS
KITLAQGTTFNLTSLGSEKSVTILNSSGGITYSNLLNHAINGLTSALKTNESLSNPQSAQGLWDIITYNGVTGQL
LNENAATSKPTDSSPSKSTNSTQVYQVGYKIGDTIYKLQETFSHNSIIIQALES GTYTPFPVINGSKFDLSASNY
INADMPWYDHKYYIPKSONFTESGTYLPSVQIWGSYTNSFKQTF SANGSNLVIGYNSTWTDHNVSSSGTVSFGDT
SGSALNGHCGPWPYYQCTGTNGTYSAYHVYITANLRSGNRI GTGGAANLIFNGVDSINIANATITQHNAGIYSSS
MTFSTQSMDNSQNLNGLNSNGKLSVYGTTFTEAKDGKFI FNAGQAVFENTNFNGGSYQFSGDSLNFSSNNNQFNSG
SFEISAKNASFNANFNNSASFNFNNSNATTSFVGDFTNANSNLQIAGNAVFGNSTNGSQNTANFNNTGSVNI SGN
ATFDNVVFNGPTNTSVKGQVTLNNTILKLNAPLSFGDGTITFNAHSVINIAESITNGNPITLVSSSKEIEYNNAF

SKNLWQLINYQHGASSEKLVSSAGNVYDVVYSFNNQTYNFQEVFSQNSISIRRLGVNMVFDYVDMKSDHLYYO
 NALGFMTYMPNSYNNNLGNANNTIYYDKSIDFYASGKTLFTKAEFSQFTGQNSAIVFGAKSIWTSLSDAPOSNT
 IIRFGDNKGAGSNDASGHWCWNLQCIGFTTGHYBAQKIYITGSIESGNRISSGGGASLNFNGLQGILLTNATLYNRA
 AGTQSSSMNFISNSANIQAQNSYFIDDTAQNGGNPNFNSFNALNLDFSNSSFPRGYVGKTSQSVFKFNAKNAISFTNST
 NLSSGLYQMQAKSVLFDSNLSVSVGTSSIKANAINLSONASINASNHSTLELQGDNLVNDTSSLNLNQSTINVS
 NATINDYASLIASNGSHLNFNGAVNFNSANITTSLNNSIVFKGAVSLGGQFNLSNNSSLDQGSSTNTAFNF
 YDNAFSQSPITFHQALDIKAPLSLGGNLLNPNSSVLDLKNSQLVFGDQGSNLNANIDLLSDLDNDKNRVYNIQA
 DMNSNMYERISFFGMHINDGIYDAKNQYTSFTNPLNNAKLTESFKDNQLSVTLSPQIKNTLYNIGSEIFNYQK
 VYNNANGVYSYDDAQGVFYLTSTNVKGYYNPNQSYQASGSNNNTKNNNLTSSESIISQTYNAQGNPISALHIYKNG
 YNFMNIKALGQMAKLYPEIKKVLGNDFSPSSSLNALNSNALNQLTKLITPNDWKNINELIDNANNSVQNFNNGTL
 IVGATQIGQTDNSAVVFGGLGYQTPCDYTDIVCQKFRGTYLQQLLESSADLGYIDTTFNKEIYLTGTLSGNA
 WGTGGSASVTFFNSQTSLLINQANTVSSQTDGIFSMLGQEGINKVFNQAGLANILGEVAVQSINKAGGLGNLIVNTL
 GSNSVIGGYLTPEQKNQTLSQLGQNNFONLMDNSGLNTAIKDLIRQKLGFWTGLVGGLAGLGGIDLQNPKEKLIGS
 MSINDLLSKKGLFNQITGFISANDIGQVLSVMLQDIVKPSNALKNDVAALGKQMGIEFLGQDITLNSLESLLQNOQI
 KSVLDKVLAAKGLPIYEQGLGDLIPNLGKKGLFAPYGLSQVWQKGDFFSNAQGNVVFQNSTFSNANGGTLFSNAG
 NSLIIFAGNNHIAFTNHAGTLQLLSDQVSNINITLNASNGLKINAANNVSVSQGNLFVVSACAQSDPTTANIAN
 PCALSAQSTNGASSNNASNNAPIALSNNDSESLMVAANDFNFSGNIYANGVVDFSKIKGSANIKNLYLYNNAQFQAN
 NLTISNQAVLEKNASFTVNNLNIQGAFFNNATQKIEVLQNLVIASNASLSTGIYGLEVGALNNSGAIHFNLENTQ
 TPTPLIQAEGIINLNTTQTPFMNVNNSMANNTTYTLLKSSRYIDYNINPNLSQSYLNLYTLININGNHIEEKNGAL
 TYLGQRVLLQDKGLLSVALPNSNNASQNNILSLSVLYNQVKMSCGDKAMDFTPTTLQDYIVIGIQGQSALNQIEAV
 GGNAIKWLSTLMMETKENPFFAPIYLNKHSLENLGVTCKDLQNTASLISNPNFRDNATNLLEASYTQOTSRLTKL
 SDFRSREGESDLSLELKNKRFSDPNPEVFKVYSQLSKHPNNLWQGVGGASFSISGNGTLYGLNAGYDRLVKNV
 LGGYVAYGYSDFNNGNIMHSLGNNVDVGMARAFKRNFTLSANETYGGNATSINSSNLLSVLNQRYNYNTWTTTS
 VNGNYGYDFMFKQKSVVLKPVGLSYHFIGLSGMKGNDAAYKQFLMHSNPSNESVLTILNMGLESRYFKGNSYFV
 TARLGRDLLIKSGSNTVRVFGENTLLYRKGEVFNTFASVITGGEMHLWRLVYNAGVGLKMGLOQDINTGNV
 MRVAF

Seq ID 210

MFEKITLAHKDLFSRFLSAQKIVLSDVSFTNCFWQHARLIQVAVIRDCLVIQTTYENQKPFYFYPIGKNAFECVK
 ELLKLEKNLRFHSLTLEQKDDKDNFVGVDFTYNRDRSDYVYSIELIALKGKKYHKKKNHLNQLFTNHFVYE
 KISPQNKKEVLEASQWFLBSQTDIDIGLINENKGIQSVLENYESLDVKGGILRVNGELIASFSFGEVLNEESALIHI
 EKARTDIAGAYQIINQQLLLNEFSLTYANREEDLGLEGLRRSKMSYNPVFLIDKYEAVAKN

Seq ID 211

MRVTFGSKYNQNMNYQNALQNKINDANTQIASGLKIRYGYQNSDINNQNLFQYEENTLDQGDIDVAQNAYTSTLNT
 DKALQEFKMEAFKTKLIQSANDVHSETSRAAIANDLERLKEHMINVANTSIGGEFLFGGSKVDRPPIDSNGKYH
 NGEDLNVLISSDNLVPYINISGQDLFLGTDKDKHKLITTNIKLFNQNLHPDVMDALEHSSLPEEVFIKPSDTLRE
 LIGDNDKDPNDPKEFFYLQGVPRDGSSFKERFALDKAYQNGESASKVSDDLKIAHAYGNTSQNKVVDVSLNNWG
 QIEIKNLTPGSENLDLHLLISSDGDFFDDLALRSSGKRVTEYIKSAFVTDRLSLSQVKAVERNMYNPKVLEVPVSVFTK
 DNVLANKNLTKLSEIFGDSVETLKINASRLDETSKIPNLPVYLDIPILLDVKNSTIKDLKDAIKRFRNNEVDVEI
 ETNGRLRIIDNSSKESPIALSALDAKGLEVAGIPNNASEYQKTYFNKEGAKLESNVAQNAANGSTKLSE
 AAKGSLSENSVFNMKLNDVNGLFLEAQMNLDNNGAFLSLPNGIKIPLYDPTSADIQASKPNEVTYRQLMDAMSIALN
 YSNTDPAIYQQISDNPTSKESEKRFIGLLKQAKDNLVNLNEEGKVI IQDNMHSNTKMQFMLEFDKDANDFSQNALH
 SDKPSLKLNNALIIDKPSVNFDDQLENTITSVRKGIYRPDALGDTYSSDMRNLGIQNGITLIDHLSDHIEKMLA
 KNGAHGKAFENIIRNEVLKTQVQSIRGETTGTDMAETYNKFSNLTNYNNAVLAATNKINNLSLTLYL

Seq ID 212

MDRAKFIFVTGGVLSLKGKISSSSSIATLLQHCHNYQVSILKIDPYINIDPGTMSPLEHGEVFTSDGAETDLDIGH
 YERFLNRNLTRLNNTTGTGQIFSSVIENERKGEYLGKTIQIVPHVTDEIKRRIKSAAGLDFLIVEGGTVGDMEGM
 FYLEAIRQLKLELGNEKVINHVTLIPYIQTTELKTKPTQHSVQELRRLGVTPQIILARSFKPLDKELKNKIALS
 CDVEQDSVIVATDTKSIYACPIFLQEGILTPARFENLNKLHPKMAAWNTLVEKILAPKHVKIGFVGKYLKLE
 SYKSLIEALIHAGALDQVNIWLDSENFNEKTDLGVDAILVPGGFGERGIEGKICAIQARLEKLPFLGICLG
 MQLAIVEFCRNVGLGLKANSTEFNQRCPEYVYVILGDFMDQNHQKQVRYTNSPLGGTMRLEGEYCEIMPNSLLEKA
 YKKPSIKERHRRHYEINPKYRQEWENKGLKVVGFGSNHLEAIELEDHPPFVGVOFHPEFTSRLQSPNPILDFIK
 SALSXS

Seq ID 213

LDLKVLLQRIVDFFIKLNKKQKIALIAAGVLITALLVFLLLYPFKEKDYTQGGYGVLFEGLDSSDNALILQHLQON
 QIPYKVSQDPTILPKDKVYEERTLASQGIPKTSKVGEFIDTKDFGATDFDQNIKLIRAEIGELSRITESLNPI
 LKANVHIAIPKDSVFVAKEVPPSASVMLKLPMDKLSPTQILGIKNLIAAAVPKLTIENTVKIENGENSIGEGDIL
 ENSKALEQQLHYKQNFENILENKIVNIIAPIVGGKNKVVARNAEFDQSQKSTKETFDPNNVVRSEQNLEEKKE
 GASKKQVGGVPGVVSNIQVQGLKDNKEPEKYEKSONTNYEVGKTISEIKGEFGTLVRLNAAVVVDGKYKIALKD
 GVNTLEYEPLSDESLOKINALVKQAIGYNQNRGDDVAVSNFEFNPMAVIDNATLSEKIMHKTQKILGSFTPLIKY
 ILVFIVLFIYKVVIVPFSERMLEVPDEDKEVKSMEFEMDEEDELNKLGLDRKKVEDQLGLNASFSEEVRYEI
 ILEKIRGTLKERPDEIAMLFKLLIKDEISSDGAKG

Seq ID 214

MYVEKILQSLQKKYPYQKEFHQAVYRAITS LKPLLDSDKSYEKHAILERLIEPEREIFFRVCWLDNNOIQVNRGC
RVEFNSAIGPYKGLRFHPSVNESVIKFLGFEQVLKNSLTTLAMGGAGGSDFDPKGKSEHEIMRFQCAFNMELYR
HIGATTDPAGDIGVEREIGYLFQGYKLVNRFEGLVTGKGLTYGGSLCRKEATGYGCVYFAEMLQERNSSLEG
KVCSVSGSGNVAIYTIKLLQIGAKPVTASDSNGMIYDKDGIDLELLKEIKEVRRGRIKEYALEKKSABEYTPTENY
PKGGNAVWHVPCFAAFPSATENELSVLDAKTLLSNGCKCVAEGANMPSSNEAIGLFLOAKISYIGIGKAANAGGVSV
SGLEMAQNASHMPWSFEVVDAKLHHIMKEIYKNVSQTAKEFKDPTNFVLGANIAGFRKVASAMIAQGV

Seq ID 215

MDDLQEIEMDFLIEAFEMNEQLDQDLVELEHNPELDLLNRIFRVAHTIKGSSSFNLNLTHLTHNMEDVLNRR
KGBIKITPDIMDVLRSIDLMKTLVTIRDTGSDTNNNGENIEEAVKQLQAITSONLES AKERTTEAPQKENKEE
TKEEAKENKENKAKAPTAENTSSDNPLADEPDLDYANMSAEFEABIERLLNKRQEADKERRAQKKQEAQKQEV
TPTKETPKAPKTETKAKADTBENKAPSIGVEQTVRVDVRRDLHMLNIGELVLGNRLIRIYSDVBERRYDGEKF
LEELNQVSSISAVTTDLQLAVMKTRMQPVGKVFNKFFRMVRDLSRELKGSIELIEGEETELDKSIVEEIGDPLI
HIIRNSCDHGIEPLEERRKLNKPKETGKVQLSAYNEGNHIVIKISDDGKGLDPVMLKEKAIIEKGVISERDAEGMSDR
EAFNLIFKPGFSTAKVSVNVSGRGVGMDVVKTNIEKLNGLIIEIDSEVGVGTQKLIPLTLAIQALLVGVEEY
AIPSSVLETVRISQDEIYTVDGKSVLRRLRDEVLISLRLSDIFKVDAILNESNDVYVVIIGLADQKIGVIVDYLG
QEEVVIKSLGYLLKNTRGIAGATVRGDGKITLIVDVGAMMDMAKS IKNVITTLMNESENTKSKNSPSDYIVLAIDD
SSTDRAIIRKCLKPLGLITLLEATNGLEGLEMLKNGDKIPDAILVDIEMPKMDGYTFASEVRKYNFKNLPLIAVTS
RVTKTDRMRGVESGMTYITKPYSGEYLTTVVKRSIKLEGDQS

Seq ID 216

VIELDINASDKSLSHRAVIFSLLAQKPCFVRNFMGEDCLSSLEIAQNLGAKVENTAKNSFKITPPTTIKEPNKIL
NCNNSGTTMRLYSGLLSAQKGLFVLSGDNSLNARPMKRIIEPLKAFGAKILGREDNHFAPLVILGSPKACHYESP
IASAQVKSASFILSAQAGASTYKESELSRNHTEIMLSKLGADIHNDGVVKISPLEKPLEAFDFTIANDPSSAFF
PALACAITPKSRLLLKNVLLNFTRIEAFVVLKMGASIEYAIQSKOLEMIGDIYVEHAPLKAINIDONIASLIDEI
PALSIAMLFAKGKSMVKNADLRAKESDRIKAVVSNFKALGIECEEEDGDFYVEGLEDISPLKQRFSSRIKPLIKS
FNDHRIAMSAFVLTALPLEIDNLECANISFPQFKHLLNQFKKGS LN

Seq ID 217

LDILDLNKAQAVQONEQFVEDKERESKEPVVLEDLSALAWLEEEFSRLSGLPKERILELVNLGKIKSKISSNKL
IDASSGTNALIKKVENSLISMDMNGRSLEPVFVEKTINTILNLHDKVIGAKDETISAFKNENMFLKDALISMQEVY
EEDKKTIDLLRDELNQAREBIEFMRKRYRLMWGKVADMSVNNK

Seq ID 218

MILVLDGFSQYTQLIARRLRERGIYTEIVPFFESIEINIQQKAPKGLILSGGPASVYAKDAYKPSGKIFDLNVPILG
ICYGMQYLVDFFGGVVVGANEQEFKAVLEITQNSVIFEGVKIKSLVWMSHMDKVIELPKGFTTLAKSPNSPHCAI
ENGKIFGLQFHPEVVQSEEGGKILENFALLVCGCEKTWGMQHFQAQREIARLKEKIANAKVLCAVSGGVDSTVVATL
LHRAIKDNLIADFVVDHGLLRKNEKERVQAMFKDLKIPLNTIDAKEVFLSKLKGVSPELKRKIIGETFIEVFEKEA
KKHHLKGKIEFLAQGTLYPDVIESVSVKGPSKVIKTHNVGGLPEWMDFKLIEPLRELKDEVRLLGKELGVSQDF
LMRHFPFGPGLAVRILGEISESKIKRLQADFIIEELKKANLYDKVWQAFVLLNVNSVGVMDNRTYENAICLR
AVNASDGMTASFSFLEHSFLEKVSNRITNEVSGINRVVYDITSKPPGTIEWE

Seq ID 219

MKVNGKFKFLRYPTKEQQDKLQHCFFVYNQAYNIGLNELOEQYETNKDSPPKERKYKKSSELDNAIKQCLRDLP
FSAVIAQQARMNVERALKDAFKVKNRGFPKFKNSAKQSFSWNNQGSIKESDDECFTFTLMKMPLLMRMHRRL
PPNFVKVQISISCSHRKYFVSFSVEYEQDITPIKNTKNGVGLDLNILDACSCINNHDKLTDFKQYQDTMKELLG
IEIDEELDTKRLIPTYSKLYSLKKYKSKFKRLQRKQSRRC

Seq ID 220

MLESALKYCKEKAIDLLVGFVPKTYSMQAECNIGLYDDAFIITKQENLVGIIISLQGLSYSNLMQKDLEGYFDARQ
NVLTNTISKDIQLRIVAKRRKEFINQSPNIDNIYAKAIITQFESKGIYKTEYFLVFETITSNVKSFFEKKKLEMTTS
INEELEESSKEDKQENENSSNETHSNTSSKKDKKNKFKKITFTSKSKRALLIQTIERVKNALKEFKPTLLNSKEV
LNFYAEYINGKYIAFNPKLRKLSDSYIASNVHFKDYFVIEFQNTFCACVGKAYESEESSLPISITLLHTQIE
LDLIFHRSIGQFESLNFLLKTKKLTLSKIVKADIDNYIELVQANRLSMQECALNLVIRAKSKAKLDKSLKEILSL
LNNAGLGSVTETIGLKPSYFSFFPNNANINPRMRHQTQSVIASLILFEKNNTGFRANSWGDMPLSVFXNLDHSPYL
FNFHNQEVKHKGVLAHNVARVVGHTMIIGATGAGKTTLSYLMMSALKYSNIDILALDRNLGLYSFTKYFDGIYNQ
GENFHINPFSLEDSATNRAFLHFAQMAKVDSYDDHKDKVEDRTALLNAIDTMYRNYNDEVKQAKFSNQELPLPF
DLKEFVNIAKTNTDILDSSFEDYKSSLFSSRMSLDKFKTRISTINTDSILHNDGGLLAYVVFHKMIDRALKI
NRGFLCFIDEFKSYAQNEMMNKKNIEITQARKANGVIVLALQDINQLSEVRNAQSFIKNGMGLILYPQRNIDTKD
LNDKFGIRLSDTEKHFLONTAVNEYKVLLKNMNDGSSNIIDVSLSSLGNLYLQIFSSNSSMVEHIDNLIKHYPKTWR
EVFVSNKHENFDDKKHLEKVLK

Seq ID 221

MKNIRNIAVIAHVDHGKTTLVGGLLSQSGTFSEREKVDERVMSNDLERERGITILSKNTAIYKDTKINIIDTPG
HADFGGEVERVLKMGVGLLVDAQEGVMPQTKFVVKALSFGICPIVVVNKIDKPAEPDRVDEVFDLDFVAMGA
SDKQLDFPVVYAAARDGYAMKSLDDEKKNLEPLFETILEHVSPSPSGSVDEPLQMQIFTLDYDNYVGKIGIARVNG
SVKKNESVLLMKSDGSKENGRITKLIGFLGLARTEIENAYAGDIVAIGFNAMDVGDSVVDPANPMPLDPMHLEEP
TMSVYFAVNDSPLAGLEGKHTANKLKORLLKEMQNTIAMKCEEMGEKFKVSGRGELQITTLAENLRREGFEFSI

SRPEVIKEENGVKCEPFHELVLDTPQDFSGAIIERLGKRAEMKAMNPMSDGYTRLEFEIPARGLIGYRSEFLTD
TKGEGVMNHSFLEFRPFGSGVESRKNALISMENGEATAFSLFNIQERGTLFINPQTKVYVGMVIGEHSDNDLDV
NPIKSKHLTNMRASGSDDAIKLTPRTMVLERALEWIEDEILEVTPLNLRIRKKILDPNMRKRAK

Seq ID 222

MKKIGLSLCLVLSLGLKAHEVSAEELADIFYKLNKAEKPKMKINHTKGFCAKGVFLPNAQAKKDLDVPLINEKEIP
ASVRYSLGGVAMDDKSKVRGMALKLENQNASWTMVMLNTEINFAPKNPNEFAQFFEMRI PKNGKVD EARIKKLYEEV
PSYRNFAAYTKTIGISSSVANTPYYSVHAFRFKDKGKLLPARWKFPKKEGIKYNLPQELKQKDSNYLLSAFQOHL
KTKPIEYQMYLVFANKNDATNDTTALWKGKHKELLVGTLKVEKYEKGMCNKDVYFPADLPKGVEAPDPLFQIRNE
VYGITFSRRQ

Seq ID 223

MLRLLIGLLMSFISLQASASWQEPLRVSI EFVDLPKKIIRFPAHDLQVGEFGFVVTKLSDYEIVNSEVVI IAVENG
VATAKFRAFESMKQRHLPTPRMVARKGDLVYFRQFNNAFLIAPNDELYEQIRATNTDINFISSDLLVTFLNGFDP
KIANLRKACNVYSVGVYIYVTTNTNLILSCESFEILEKRELDTSVTKTSTPFFSRVEGIDAGTLGKLFSGSQSKN
YFAYYDALVKKEKRREKVRIRKREKIDSREIKREIKQEAIKEPKKANQGTQONAPTLEESKNYQKAERKLDKAKBERRY
LRDERKKAKATKKAMEFEEREKEHDERDEQETEGRRKALEMDKGDKEERVKPENEREIKQEAIKEPSDGNNAQ
QGEKQNA PKENNAQKEENKPNKSKKEKRRLKEEKKKAKABQARAREFEQRAREHQRERDEKELEERRKALEAGKK

Seq ID 224

MFKDFYRTTSLFLKPLLLLLLVLLL PFSLCIADEYISISDDWDEIVRNHKTYYFENGLDHFNGQGYQOAFKDFRLAQ
EYSIGLSVYLAKMYLEGKGVVDYKKAQFYAENAIKGYGSGLLGALILGRMQAEGLGMMKDLKQALKTYRHVVR
MFSNKSTNFANNFRLPNLAFTSMLIGSRFIDLSGLSANPIKFGKKFGILVKKSTQIKDKTLLWEDIAEISSNITL
LKQQMGELIYRIGIAYKEGLGTRKKKDRAKKFLQKSAEFGYKAMEAL

Seq ID 225

MTEDRLSAEDKKFLEVERALKEAALNPLRHATEELFGDFLKMENTEICYNGNKVWVLKNGGEWQPFQVDRKAF
SLSRLMHFARCCASFKKKTIDNYENPILSSNLANGERVQIVLSPVTVNDETISISIRIPSKTTYPHSFEEQGFYN
LLDNKEQAI SAIKDGIAGKNVIVCGGTSGGKTTYIKSIMEFIPKEERIISIEDTEIVFKHHKNYTQLFFGGNIT
SADCLKSCLMRPDRILGELRSSEAYDFYNVLCSGHKGTLTTLHAGSSEAFIRLANMSSSNSAARNIKFESLIE
GFKDLIDMIVHINHKKQCEFYIKHR

Seq ID 226

MNEENDKLETSKKAQQDSPODLSNEEATEANHFENLLKESKESSDHHLNPTETQTHFDGDKSEETQTMQDSEGNE
TSSENGSLADKLFKKARKLVNDKKPFTQQKNLDEETQELNEEDDQENNEYQETQTDLIDDETSKKTQQHSPODL
SNEEATEANHFENLLKESKESSDHHLNPTETQTNFDGDKSEETQTMQDSEGNETSESNGSLADKLFKKARKLV
NKKPFTQQKNLDEETQELNEEDDQENNEYQETQTDLIDDETSKKTQQHSPODLSNEEATEANHFENLLKESKES
DHHLNPTETQTNFDGDKSEETDSDNDQEI IKGSKKKYIIGGIVAVLIVILFSRSIFHYFMPLEDKSSRFSKO
RNLYVNDEIQIRQEYNRLKERNEKGNMIDKNLFFNDPNRTLYNLNIAEIEDKNPLRAFYECISNGGNYEECLK
LIKDKKLQDQMKKTLEAYNDCIKNAKTEERIKCLDLIKDENLKSLLNQKVQVALDCLKNAKTDEERNECLKI
NDPEIREKFRKELELQKELQYKDCIKNAKTEAKNKCLKGLSKEAIERLKQQALDCLKNAKTDEERNECLKNIPQ
DLQKELLADMSVKAYKDCVSKARNEKEKQCEKLLTPEARKKLEQQVLDCLKNAKTDEERKCLKDLPKDLQSDIL
AKESLKAYKDCVSOAKTEAEKKECEKLLTPEARKLLEEAKEKSVKAYLDCVSOAKTEAEKKECEKLLTPEARKKLE
EAKKSVKAYLDCVSRARNEKEKKECEKLLTPEARKLLEEQQALDCLKNAKTDEERKCLKDLPKDLQKVLAKESV
AYLDCVSOAKTEAEKKECEKLLTPEARKLLEEAKEKSVKAYLDCVSOAKTEAEKKECEKLLTPEARKLLEEAKEK
KAYLDCVSOAKNEAEKKECEKLLTLESKKLEEAKEKSVKAYLDCVSOAKTEAEKKECEKLLTPEARKLLEEQQALD
LKNAKTEADKKRCVKDLPKDLQKVLAKESLKAYKDCVSKARNEKEKKECEKLLTPEARKLLEEAKEKSVKAYLDCV
SOAKTEAEKKECEKLLTPEARKLLEEAKEKSVKAYKDCVSKARNEKEKKECEKLLTPEARKLLEEQQVLDCLKNAKTE
ADKKRCVKDLPKDLQKVLAKESLKAYLDCVSRARNEKEKKECEKLLTPEARKLLEEAKEKSVKAYKDCVSRARNEE
ERRACEKLLTPEARKLLEEQEVKKS IKAYLDCVSRARNEKEKKECEKLLTPEARKFLAKQVLNCLKAGNEEERKAC
LKNLPKDLQENILAKESLKAYKDCVSRARNEEERRACEKLLTPEARKLLEEQEVKKS SVKAYLDCVSRARNEKEKKEC
EKLLTPEARKFLAKELQKDKAIKDCLNADPNDRRAIMKCLDGLSDEEKLKYLQEAAREKAVADCLAMAKTDEEKR
KCQNLYSDLIQEI QNKRTQNKQNLQSKTERLHQASECLDNLDDPTDQEAIEQCLEGLSDSERALILGIKRQADEVD
LIYSDLRNRKTFDNMAAGYPILPMDFKNGGDIATINATNVADKIASDNPIYASIEPDIQYETEKTIKDKNLE
AKLAKALGGNKDDKEKSKKSTAEAKAENKIDKVAETAKNISEIALKNKKEKSGEFVDENGNIIDDKKAEKQ
DETSPVKQAFIGKSDPTFVLAQYTPIEITLTSKVDATLTGIVSGVAKDVWNMNGTMILLDKGTVKGYQSVKGG
TPIMTRLMIVFTKAITPDGVIIPLANAQAAGMLGEAGVDGYVNNHFMKRIGFAVIASVNSFLQTAPIIALDKLIG
LGKGRSERTPEFNALGQAINGSMQSSAQMSNQILGQLMNIIPPSFYKNEGDSIKILTMDIDFSGVYDVKITNKS
VDEIIKQSTKTLREHEEITTSFKGGN
"X" can be any amino acid.

Seq ID 227

VKCFLSIFSFLTFGLSLNGTEVVITL EPALKAIQADAQAKQKTAQAEKAEQSSAKEKAIQAOIEGELRTQLA
TMSAMKLGANGVINGVNGMTGGFFAGSDILLGVMEGYSSALSALGGNVKMI VEKQKINTQTEIQNMQIALQKNNEI
IKLMNQNALLEALKNSFEPSTLKTQMEMLSQALGSSSDNAQYIAYNTIGIKAFETLKGFTWLKVAMQKATL
IDYNSLTGQALFQSAIYAPALSFFSSMGAPFGIIEFTPLAPTCKPYLDGLKISACLMEQVINYRMIVALIQNKLS
DADFQNIAYLNGINGEIKTLKGSVDLNLALIEVAILNAENHNLNYIENLEKKADLWEEQLKLERETTARNIASSKVIV
K

Seq ID 228

MAGTQAIYESSSAGFLSEISSIISSSTSGVAGPFAGIVAGAMSAAIIPIVVGFTNPQMTAIMTQYNQSI AEAVSMMPM
 KAAHQYQYLYQGFNDQSMAGVNNILNISKLTGEFNVQGNTOGAQISAVNSQIASILASNTTPKNPSAIEAYATNQ
 IAVPSVPTTVEMMSGILGNITSAAPKYALALQEQLRSQASNSMNDTADSLDSCALGALVGSSKVFSSCMQISMT
 PMSVSMPTVYAKYQALXTNALTSGTNPMTTPACPIGDKVLAVYCYAEKVAREILREYYIEFVKNNNTNLLQNASQMIL
 NQSGLATSTYDTQAISSNLSLYNNIVANKSFLKSHLTLYLDYIKNKLKGQKDSYTERVQTKIIVK
 "X" can be any amino acid

Seq ID 229

MKTNFYKIKLLFAWCLIIIGMFNAPLNADQNTDIKDIPEDMALNSVGLVSRDQLKIEIPKETLEQKVAVLNDYNDK
 NVNIKFDNISLSGSFQPNLNLGINAMWGIQNLMSQMMGDYGFNNPFMYGYAPTYSOSSFLPPILGY

Seq ID 230

VFVASKQADEQKKLVIEQEVEQKRQFKKIBELKADMQKGVNPFVKVLFDDGGRNLFGFPETFIYSSIFILFVTIVLSV
 ILFQAYEPVLIVAIIVLVALGFKKDYRLYQRMERAMKFKPFLFKGVKNKAFMSIFSMKPSKEMANDIHLNPNRE
 DRIVSAANSYLANNYECFLDDGVILTNNYSLLGTIKLGGIDFLTTSKKDLIELHASIYSVFRNFVTPFEKPYFHTV
 KKKIVIDEETNRDYSILFSNDFMRAYNEKQKRESFYDISFYLTIEQDILLDTLNEPVMNKKHFADNNFEFQRIIRAK
 LENFKDRIELIEELLSKYHPIRLKEYTKDGVISYKQCEFYNFLVGMNEAPFICNRKDLYLKEKMHGGVKEVYFANK
 HGKILNDDLSEKYSATIEISEYAPKSQSDLFDKINALDSEFIFMHAYSPKNSQVLKDKLAFTSRRIISGGSKEQG
 MTLGCLSELVNGNDITLGSYGNLSVLFADSFEEKMQSVKECVSSILNAKGFLANAATFSMENYFFAKHCSFITLPPFI
 FDTVSTNNFADFAMRAMSFDGNQENNAWGNVMTLKEINSPPYLNFMPTDFGSASAGHTLILGSTGSGKTVFMS
 MTLNAMGQFVHNFANVSQDKQKLTVMYMDKDYGAYGNI VAMGGEYVKIELGTDGLNPFAWAACVQKTNAATMEQK
 QTAISVVVELVKNLATKSDEKDENGNSISFSLADSNTLAAAVTNLTITGDMNLDYPITQLINAFGKDHNDPGLVAR
 LAPFCKSTNGEFQWLFDNKATDRDLDFSKTIIGVDGSSFLDNDVSPFICFYLFARIQEAMDGRFRVLNIDEAWKYL
 GDFKVAIFYVDRMLKTARKRNAIVRLATQSI TDLLACPIADTIREQCPTKIFLRNDGNNLSYQRLANVTEKEFEI
 TKGLDRKILYKQDGSPSVIASFNLRGIPKEYLKILSTDTVFVEIDKIIQNHSIIDKYQALRQMYQOIKEY

Seq ID 231

LINNNSNKKLRGFFVKVLLSLVVFSSYGLANDDKAEKKEVLEKEKNTPNGLVYTNLDFDSFKATIKNLKDKKVTFK
 EVNPDIKDEVFDFVIVNRVLKKIKDLKHYDPVIEKIFDEKKGEMGLNVELQINPEVKDFFTFKSISTTNKQRCFL
 SLRGETREILCDDKLYNVLLAVFNSYDPNDLLKHISTVESLKKIFYTITCEAVYL

Seq ID 232

MTNETIDQTRTPDQTSQTAQFDPQQFINNLQVAFIKVDNVVASFDPDQKPIVDKNDNRQAFDQGISQLREEFSNK
 AIKNPTKKNQYFSDFIDKSNNDLINKDNLIDVESSTKSQKFGDQRYQIFTSWSVSHQKDPKINTRSIRNFMENTIQ
 PPIPDDEKAEFLKSAKQSFAGIIIGNQIRTDQKFMGVFDESLEKERQAEKNGGPTGGDWLDFLSFIFNKKQSSD
 VKEAINQEPVPHVQPDIAATTTDIQGLPPEARLDDERGNFSKFTLGDMEMLDVEGVADIDPNYKFNQLLIHNNAL
 SSVLMGSHNGIEPEKVSLLYAGNGGFGDKHDWNATVGYKDQGGNNVATLINVHMKNSSGLVIAGGEKGINNPSFYL
 YKEDQLTGSQRALSQEEIRNKVDPMFELAQNNTKLDNLSEKEKEKQNEIEDFQKDSKAYLDALGNDRIFAQVSKKD
 TKHSALITEFNGNDLSYTLKDYGKKADKALDREKNVTLOGSLKHDGVMFVDYSNFKYTNASKNPNKGVGATNGVSH
 LEAGFNKAVFNLPDNLNLAITSFVRRNLENKLTAKGLSLQEANKLIKDFLSSNKELAGKALNFNKAVAEAKSTGN
 YDEVKKAQKOLEKSLRKEHLEKEVEKKLESKSGNKNKMEAKAQANSQKDEIFALINKEANRDARAIAATYQNLKGI
 KRELSDKLEKISKDLKDFSKSFDEFKNGKNKDFSKAETLALKGSKVDLGINPEWISKVENLNAALNEFKNGKNK
 DFSKVTQAKSDLENSVKDVIINQKVTDKVDNLNQAVSVAKAMGDFSRVEQVLADLKNFSKEQLAQQAQKNEDFNTG
 KNSELYQSVKNSVNKTILVGNLSGIEATALAKNFDISKELNEKFNFNNNNGLKNSTEPYAKVNKKKTGQVAS
 PEEPIYTQVAKKVNKIDRLNQIASGLGGVQGAAGFPLKRHDKVDLDSKVGLSASPEPIYATIDDLGGPFPLKRHD
 KVDDLKSVGRSRNQELAQKIDNLNQAVSEAKAGFFGNLEQTIDKLKDSKKNVNMLYVESAKKVPASLSAKLDNYA
 INSHTRINSNIQNGAINEKATGMLTQKNPEWLKLVNDKIVAHNVGSVSLSEYDKIGFNQKNMKDYSDFSFKFSTKLN
 NAVKDIKSGFTHFLANAFSTGYCLARENAEHGINKVNTKGGGQKS

Seq ID 233

VAINTFLKHSFLVCLLAVNSYAFDWNIFKYNLGFNMFMIDHEGSTPIYVWNTNTNLKTRLTNPFGIQFYTRGVEQSL
 TVGAYFFQNFHNYSTNFPYRWGPTMYKARGKRFTFYGGIFPRKNLLGRYGLNIFAPYYWFIDPNARGFLLQFQNH
 YSPSKPYYGHAEFMLDWFGGNCYNTCKFGRNPYGNAMDRFQMNGSVAYNFFKDLLGIGGYFVLFHNEKYLNGAD
 GMPFNEKKAIDNSAIYLLDRLYYNAYISTSLDDIAPFMEKLSAKFGMVSEASRLRNREKEVFFINSVGGQFDVEIQ
 YKGGFIHNLFFFAKTPEMPFYNYQYVEMYCTPSYCPTPIYRGVFFQANMYNRFDFYNNWKNDFFASVRINFLVNA
 MRGGFDRSLPWSSESYQVYMTVAFDPNYLINKLARKK

Seq ID 234

MMIFIDACFRKETPYTPPIWMMRQAGRYLSEYQESRKAGSFLELCKNSDLATEVTLPVEILGVDAAILFSDILV
 PLEMGLNLEFIPKKGPHFLETTIDLSVESLKVGAQYQNLNYVDYDTISQTRQKLSREKALIGFCGSPWTLATYMI
 EGSKSYAKSKMLYSEPEVLKALLEKLSLELIEYLSLQIQAGVNAVMI FDSWASALEKEAYLKFSWDYLLKISKEL
 KKRYAHPVILFPKGIGAYLDSIDGEFVDFGVWDGTPLTAAKKILGGKYVLQGNLEPTRLYDKNALEEGVETILKV
 MGNQGHIFNLGHGMLPDLPRENAKYLVQLVHAKTRR

Seq ID 235

MYKTAINRPITTLMFALAIVFFGTMGFKKL SVALFPKIDLPTVVVTTTYPGASAEIIESKVTDKIEEAVMGIDGK
 KVTSTSSKNVSIIVIEFELEKPNBEALNDVVKIISVRFDDSNIKKPSINKFDTDSQAIISLFVSSSSVPATTLND
 YAKNTIKPMLQKINGVGGVQLNGFRERQIRIYANPTLMNKYNLTADLFSTLKAENVEIDGGRIVNSQREFSILIN
 ANSYSVADVEKIQVGNHVRGLDAKIEIGLEEDNTFASFDDKPGVILEIQKLAGANEIEIVDRVYEALKRIQAIISP
 NYEIRPFLDTTGYIRTSIEDVKFDLVLGAILAVLVVFAFLRNGTITLVSAISIPISIMGTFFALIOWMGFSLNMLTM
 VALTLAIGIIIDDAIVVIEINHHKLEMGMSSKRKASYEGVREIGFALVAISAMLLSVFVPIGNMKGIIIGRFQSGFI
 TVALAIALSYVVVVVTIIPMVSSVVVNPRHSRFYVWSEPFKALESRYTLLQWVLNHHKIIISIAVVLVFGSLFVA
 SKIGMEFMLKEDRGRFLVWLKAKPGVSIIDYMTQKSKI FQKAI EKHA EVEFTTLQVGYGTTQNPFFKAKIFVQLKPLK
 ERKKEHQLGQFELMSVLRKELRSLPEAKGLDTINLSEVTLIGGGGDSPPQTFVFSHSQEAVDKSVENLKKFLLES
 PELKGKVESYHTSTSESQPQLQLKILRQANANKYGVSAQTIGSVSSAFSGTSQASVFKEDGKEYDMIIRVPDDKRV
 SVEDIKRLQVRNKYDKLMFLDALVEITETKSPSSISRYNRQSVTVLAEPNRNAGVSLGELTQVSKNTKEWLVEG
 ANYRPTGEADNAKESNGEFLVALATAFVLIYMLAALYESILEPFIIMVTMPLSFSGAFFALGLVHQPLSMFMSMG
 LILLIGMVGKNATLLIDVANERKKGKLNITQEAIFAGKTRLRPIILMTTAMVCGMLPLALASGDGAAMKSPIGLAM
 SGGMLISMVLSLLIVPVFYRLAPIDDKIKRFYQNKQKTL

Seq ID 236

MKKVLIINGAKAFSSGGKLNFTLTDHAKKTLESIGLEVDTTIVDKGYEHAQEVEKVSADATIWMQPGWWMGEPW
 IVKKYIDEVFSVGHGKLYASDGRSSQNPTKNYKGKGLMQGKKYMLSLTWNAPIEAFNDPSEFFEGVGVDVYVLHLH
 KAFQFLGLSALPTFICNDVVKNPQVBQYLNLSLTHLRQAFGK

Seq ID 237

LVFVFLFKVCVNEETSLNFTPLLERMACNLQARFYSVKDNTTSFYLOASAETTFEFAQKLSEILPFSLDIFSFLSLK
 EITEPLDENLFTASLSKPLFMNAKEHQDFLDKNSSLYADTLGLIKNTAFKGDIIHSPKELIDCLTQLKGMLKTQD
 FIPIFTREALSLSLKNPSPSVIFSDLSVLSCTKLPLEDAKYLASLEKPSIKAPLKSVMKDTFKNDEIIAQLPYD
 PILNLLCHILQDEGIEFVFMHESRSCBALLYEALFKTPKRLITPTKKFVLENNFSTFPFKDELEFLSATPNSIVL
 YLSFKRPTRLILLHANGSLKTLSSVSFDFNKMFNALKQDEKASRMLQNYATKFPDFYARIVELSKYDLGGANLLDFF
 CILGFVLGYSEDFCTQSVIPLAKECLRPKGPRIDYKILKDNLSKLMALNFSKIMHSAMSFRLAGVENEILSLGILDS
 LAEFLGNFIWDNAQNFSVQEVTTIAGDFFGEKVFLDLFVRYFPKTLALKTHAFLDYE

Seq ID 238

IKKLILSSLVFACINTSVEALENDGSKPNDLTSPKEASQESQKNEAPKNEVORNEAQKETPQSNQTPKEMKVKSI
 YVGLSYMDDLANEIVKIRVGDIIVDSKKIDTAVLALFNQGYFKDVYATFEGGILEFHFDEKARIAAGVEIKGYGTEK
 EKDGLKSQMGIKKGDTFDEQKLEHAKTALKTALLEGQGYGVSVEVRTEKVSEGALLIVFDVNRGDSIYIKQSIYEG
 SAKLKRMIESLSANKQRDFMGWMLNDGKLRDLQLEYDSMRIQDVMMRGYLDHAHSSPFLKTDFTDHLAKLHY
 KVKEGIQYRISDILIEIDNPVPLKTLKALKVKRKDVFNIEHLRADAQILKTEIADKGYAFVVKPDLKDEKNG
 LVKVIYRIEVDGMVYINDVILSGNQRTSDRIIRRELLGPKDKYNLTCLRNSNSLRRLGFFSKVKIEEKRVNSSL
 MDLLVSVEEGRTGQLQFGLGYGSYGGLMLNGSVSERNLFGTGQSMSTYANLATGGGRSYPGMPKGAGRMFAGNLSL
 TNPRIFDSWYSSTINLYADYRISYQYIQGGGGFGVNVGRMLGNRTHVSLGYNLNVTKLLGFSSPLYNRYSSVNEV
 VSPQCSTPASVITNRLSGGKTPLQPESCSSPGAITTSPEIRGIWDRDYHTFITSSFTLDVSDNTDDYFFPRNGV
 IFSSYATMSGLPSSGTLNSWNLGGNVRNTKVYGFKAAYVHHLQKYLIDLIARFKTQGGYIFRYNTDDYLPNSTF
 YMGGVTTVRGFRNGSVTPKDEFGWLWGGDGIFTASTELSYGVLLKAAKMLAWFFDFGFLTFTKPTRGSFFYNAPVT
 TANFKDYGVIGAGFERATWRASTGLQIEWISPMGPLVLIFPIAFFNQWGDNGKCKGKLCFNPMDDYTOHFEFSM
 GTRF

Seq ID 239

MRKIFSIVLKALLFIGIVYAEPEKVEALEGRKQESSLDKKIRQELKNKDLKNKELKNKKEKNTEKKETKAKR
 KPRAEVHHDGTDKNPTQKITPPKIKENAKGVQNGVQSNAPKLEKDTTSQTEKKGASPSQFNSIFGNPNDAANN
 TLEDKVVGGISLLVNGSPITLYQIQEEQEKSKVSKAQARDRLIAERIKNQEIERLKIHVDDKLDQEMAMMAQQQG
 MDLDHFQMLMAEGHYKLYRDQLKEHLEMQELLRNILTNVDTSSETKMRFEYNNKHKEQFSIPTLETVRYTSTNQ
 EDLERAMADPNLEIPGVSKANEKIEKMTLNPOIAQVFISHEQGSFTPMNGGGGQFITFYIKEKKKNEVVSFSQAK
 QFIAQKLVEESKDKILEEHFEKLRVKSRIVMIRE

Seq ID 240

MLSVIILAAGKGTRMRSSLPKTLHTICGEPMLFYILETAFSISDDVHLILHHQKERIKEAVLERFKGVIFHTQIVE
 KYSGTGGAIMQDKTPISTKHERVLIILNADMLITKDALAPLLESKNNAIGLLHLADPKGYGRVVLNHHQVKKIVE
 EKDANDEEKEIKSVNAGVYGFERDFLEKYLPLKLDQNAQKEYYLTDLIALGINENETIDAIFLKEECFLGVNSQTE
 RAKAEIIMLERLRKNAMDLGVVMQLPNSIYLEKGVSFKECVLEQGVRLIGNCLIENAHIKAYSVIEESQIVNSSV
 GPFAHARPKSVICNSHVGNFVETKNAKLQGTAKAGLSYLGDCIEGKNTNVGAGVITCNVDGKKKHQTIIGENVFIG
 SDSQLVAPINIGSNVLIGSGTTITKDIPSGSLSLSRAPQTNIEGYFKFFKKP

Seq ID 241

MKEITIALVGQPNVKGSSSLINALSNAHLKVGNFAGVTVDKMEVGLIHKEHQITIIDLPGTYALNDFTTTEKVTKDF
 LEKGQYDLILNVVDSTNLERNLALSAQLLDTNKKMLLALNMWDEAQKEGKINTEKLSKELGVVCVPTSARSKEDR
 LNTLELLDEIVRLYSQNTTNNENIKVPSQSFKESLKYSQSAQRIALVISENQONASFEHTYKIDKILMHKRYGIF
 IFLGFMFIIFSLSLIGGGVQKALETGFKFLSDGIEKNVANEDLASLVGDGIIGGVGATVSFLPLIVVLYFGISLL
 ETTGYMSRVAFLLDGILHKFGLHGKSFIPITGFGCSVPAYMATRTLQNYNERLITLFVIGFMSCSARLPIYVLFV
 GSFFPSSSAGFVLFICIYILGAVVALMAKLLKLSVFKGQTESFIMEMPKYRFPSWRMVYFSIYTKSLSYLKKAGTY
 ILVGAILIWFMSQYPKSDAAMKAYQESLLVNKDTTSLSEAKEKELKELKTELDKKNLKNKSVGRGGAYLEKVFSP

MDFDWRLSVSLVTGFMKEVVSTLGVLSLGDQNEKSDAFRGILRKEVSVPSGIAFIVFVMFYIPCFATITFGR
EAGGIKFVAYLFIPTTVVAYAFSLIAPYATQILV

Seq ID 242

MANLLKNGKTLKQARDEILARTEKTGHYNGLKLEFKERDPIGYEKMFSKLRGGIVHARETAKRIAASPIVEQEGBE
LCFTLYNAVGDVLTSTGIIHVGTMGSAIKYMVENNWNPNGINDKDIFTNNDCAIGNVHPCDINTLVPIFHDEK
LIGWVGGVTHVIDTGSVTPGSMSTGQVQRFQDGYMITCRKTGANDESFKDWLHESQRSVRTPKYWLDERTRIAGC
HMIRDLVMEVIKEDGIDSYMRFIDEVIEGRRGLISRIKSMTIPGKYRKVAFVDVPYAHKDIGVCSEFAKLDTIMH
SPVEITINKDATWKLDFDGASRWGWHSEFNCNQVSFTSGIWMVTOTLIPTSRINDGAYFATQFRLKKGTTWMNPDDR
RTGHAYAWHFLVSGWSALWRGLSQAYYSRGYLEEVNSGNANTSNWLQGGGINQDGEIHAVNSFETSSCGTGACAIK
DGLNHAAAIWNPEGDMGDVEIWEMAEPLLYLGRNVKANTGGYGYRGNGFETLRMVWGAHDWTMFFMGNGYMNND
WGMMGGYPAASGYRFAHNTDLKNRIKNNASLPLGGDFNPTRDYEKHISHASQVKRDKQCITTENCDFNDYDLYLN
YIKGGPGFGDPIDRLNAILLEDLNSKQLPEYAYKVYGAUVSQQNKDGVWVGDEAKTKARRKBELENKARSIPVKQ
WMBQERNALKEKASKQVKHMYATSFDLSPKFLNDFKTFWNLPKNWSVKEDELGVFTYGSKYRMDLSKLPDVRTVL
LVDEK

Seq ID 243

MQDNSVNETKNIVEVGIDSSIESYLAISMSVITIGRALPDARDGLKPVHRRILYAMHELGLTSKVAYKKSARIVGD
VIGKYHPHGDNAVYDALVRMAQDFSMRLELVGQGNFGSIDGDNAAMRYTEARMTKASEBILRDIDKDTIDFVFN
YDDTLKEPDILPSRLPNLLVNGANGIAVGMATSIIPHRMDEIDALVHLENPNAGLDEILEFVKGPDPFTGGIY
GKAGIIEAYKTGRGRVRAKRVHVEKTKNKEIIVLDEMPFQTNKAKLVEQISDLAREKQIEGISEVRDESREGIR
VVIELKRDAMSEIVLNHLYKLTMTTTFIILLAIYNKEPKIFTLLELLHLFLNHRKTIIRRTIFELEKAKARAH
ILEGYLIALDNIDEIVRLIKTSQSPEAAKNALMERFTLSEIQSKAILEMRLQRLTGLERDKIKEEYQNLLELIDDL
NGILKSEDRNGVVKTELLEVEKEQFSSPRRTEIQESYENIDIEDLIANEPMVVSMSYKGYVKRVDLKAYEKQNRGG
KGKLSGSTYEDDFIENFFVANTHDILLFITNGQQLYHLKYKIPEASRIAMGKATVNLISLAPLDMATLSTKDF
SDERSLAFFTKNGVVKRNTLSEFESNRSCGIRAIIVLDEGDELVSQVVDKNKHLHLLASHLGIFIKFPLEEVREIG
RTRRGVIGIKLNENDFVVGAVVISDDGNKLLSVSENGLGKQTLAEAYRGQSRGGKVGIGMKLTQKTGNLVGVISVD
DENLDMILTASAKMIRVSIKDIRETGRNASGVKLINTADKVMYVNSCPKEEPEENLETSSAQNLF

Seq ID 244

MEFMKKFVALGLLSAVLSSSLLAEGDGVYIGTNYQLGQARLNSNIYNTGDCGTSVVGCPPLTANKHNPGGTNINW
HAKYANGALNGLGNVGYKKFFQKSFDMTSKWFGFRVYGLFDYGHATLGKQVYAPNKIQLDMSVSWGVSGDLLADI
IDNDNASFGIFGGVAIGNTWKSSAANYWKEQIIIEAKGPDVCTPTYCNPAPYSTKTSTVAFQVWLNFGVRANIYK
HNGVEFGVRVPLLINKFLSAGPNATNLYHLKRDYSLYLGYNYTF

Seq ID 245

MAILRANLSPKNKLNATLKGWLPILQSELEDLEEVLKQNALDNPLIKIENKRIKNFSDRFSAKKSSDHLENFATAS
KSLPFTLEAQIIPPLPFTETSQKIAMDIIISGLNNEGYFEENIEERARILGVESEVYEKVRKRFSYLNPAIGAKDV
KESFLFQLESRELDNELYEBETRKIILNLKHHFESKDFYEEKALKILKSFKNPPAIEFLEKEIEVIEPELFIVEVD
NGIIVRLNDESYPTISLEENRFKDSGYLKEKLEKALIDALNLRKATIYKIGLMLLEYQYDFFKGKELRPLKLLD
LANEFNHSVSTISRASNKYLACERGVPFIKHFFSIALDNSETSNVAKDYLLLELIKNEDEKKEPLSDAKILELIEE
KFHLKMRRTITTKYRQLNLIASSSERKRLYLMRA

Seq ID 246

MQVLALKYRPHKFSSELVQGESVAKTSLSLALDNQRLANAYLFSGLRGSGKTSSSRIFARALMCEEGPKAVPCDTCIQ
QOSALNNHHIDIEMDGASNRGIDDVRNLEIQTRYKPSFGRYKIFIIDEVHMTTEAFNALLKLTLEPPSHVKFLL
ATTDALKLPAITLSRTQHFRFKKIPENSIVSHLKTILEKEQVSYESALEKLAHSGQGSRLDITITLLEQAINYCDN
AITESKVAEMLGAIDRSVLEDFQSLINQDEARLKERYAILENYETESVLEEMMLFLKAKLLSPDFYSILLIERFF
KIIMSSLSLLKEGANASVLLLLKMKFKEALKFKALDDAILELEQTPFNQNPSSISYNAPKQESKNIEKREKIEQIE
RIEGTEKREKLEKKEAFTPTQTFMLSAKDRIFHNLFKQVQTLVYERNYELGAVFEKNIRFIDFDSQTKTLTWESLA
TDKDKELLRERFKIVKSIVDGVFGGESIKIALKNHSENKSTLEVVKELKFPYKPKPTTETTAEKKEKKEKEI
QENDTKIEQEVQPKQAPTALQEFMANHSELIEIKSEFEIKSVELL

Seq ID 247

MRIFLKLILLFLCKGQVMAQNLPITIALLATGGTIAGSGASASLGSYKSGELGIKELLKAIPSLNRLARIQGEQIS
NIGSQDMNEEVWFKLAKRAQELLDSDRIQGVVITHGDTLLEESAYFLNLVLRSTKPVVLVGAMRNAASLSADGALN
LYNAVSVALNEKSANKGVLVVMDNIFSAREVIKHTHTTSTFKALNSGAIGSVYGYKTRYMQPLRKHTTESSEFS
LSQLKTPLEKVDIIYTHAGMTPDFQASLNSHAKGVVIAVGNGVNSAGFLKAMQEASQMGVVIVRSSRVNSGEIT
SGEIDDKAFITSDNLNPQKARVLLQLALTKTNNKEKIQEMFEY

Seq ID 248

MDFKNKKWLFLAPLAGYTDLPFRSVVKKFGVDVTTSEMVSSHSLVYAFDKTSKMLEKSPLEDHFMAQISGSKESV
KEAVEKINALHEVNGIDFNCGPCAPKVANHGNGSGLLKDLNHLVKLLKTIRENTSKKITSVKVRLGFEEKIPKEIA
HALNDAPVDYVVVHGTRSDKYQDKIDYESIALMKKILKPKVIANGELDSVKKAFEVLQITQADGLMIGRAALRA
PWIFWQIRNNTTKLPAVVKDLVLEHFDKMFYGDGMGVIMFRKNLHAYAKGEMQASAFRNCVNTLTEIKSMRESI
EEFFNQEMLQSEVPLWVELNQKSV

Seq ID 249

MAIGSLSSGLGSKVLNYDVIDKLDKDADEKALIAPLDKMEQNVEKQKALVEIKTLLSALKGPVKTLSDYSTYISR
KSNVTGDALSASVGVGVPIQDIKVDVQNLAQGDINELGAKFSSRDDIFSQVDTTLKFYTQNKDYAVNIKAGMTLGD
VAQSITDATNGEVMGIVMKTGGNDPYQLMVNTKNTGEDNRVYFGSHLQSTLTNKNALSLGVDGSGKSEVSLNLKGA
DGNMHEVPIMLELPESASIKQKNTAIQKAMEQALENDPNFNKLIANGDISIDTLHGGSGLIINRRGGNIEVKGSK
AKELGFLQTTTQESDLLKSSRTIKEGKLEGVVSLNGQKLDLSALTKESENTSEENTDAIIQAINAKEGLSAFKNABG
KLVINSKTGMLTIKGEDALGKASLKDLGLNAGMVQSYEASQNTLFMSKNLQKASDSAFTYNGVSI TRPTNEVNDVI
SGVNITLQTTTPEPNKPAIISVSRDQAIIDSLTEFVKAYNELIPKLEDTRYDADTKIAGIFNGVGDIRAIRSSLN
NVFYSVHTDNGVESLMKYGLSLDDKGVMSLDEAKLSSALNSNPKATQDFFYGSDSKDMGGRBHQEGIFSKFNQV
IANLIDGGNAKLIYEDSLDRDAKSLTKDKENAQELLKTRYNIMADVLPMLAKSLKPIKNSIPCK

Seq ID 250

MQIATAIWKTRIWQLQTHFDKKEAHLKHLKLEAQHKEFVRDEKRYLEKEKKELEKERQILEQEKENFKKQRAVCKESQ
AKALDAMLNMYATKDEIKSMILEQLEEELEAOKSALIRRYEKEAKEEGKKSYAILAEATARFAGNYAAENLTTR
IALPCSDYIGRVIGKDGKNIEAFKKVSGVDIEFSEDSSELCLSSFNLYRREVASETLKILIEDGRIQPNRIEEVYH
RVARNLEKELLSEGESVLELELGAMEDELKILIGKMYRSSFGQNALQHSKEVALLAGLIAEQLGDKKLARRAG
ILHDIGKALTQELGRDHVNLGVEVCKRHKEDPVVINAIYAHHGHEILSVECASVCAADALSAGREPGARRKSDEEY
AKRMQALREIALEFDGVKAYAMESGRELRVIVKSNQVRDQVPIIARKIAKKIEESAQYVGEVGVQVVRERFKT
TATLKQ

Seq ID 251

MPMRLHTAFFGINSLLVASLLISGCSLFKKRNTNAQLIPPSANGLQAPIYPPNTFTPRKSIQPLPSRLENNDQPV
ISSNPTNAIPNTPIITPNNVIELNAWAWAWLQNPFFHPLKPWL

Seq ID 252

MENNPNNQASLERNELHNTIWKVANELRGSVDGWDKQYVGLGILFYRISENMTHYINKEERKRDPSPDYAKLSD
EKAERGRKHLIEQKGFPIPPSALFCNALKNACHNEDLNVTLQNI FNEIEKSSLGTPSEENVKGLFADLDVNSNKLK
SSHQNRVEKLTILKLEAIGGMQLGDYLSGIDVFGDAYEYLMAMYASNAGKSGGEFFTPQEVSELLAKITLHGQESV
NKVYDPCCGSGSLLQFSKVLGDKNVSKGYFGQEIINLTYYNLCRINMFLHDINYSKFHIAHGDITLDPKHEDDEPF
DAIVSNPPYSTKWVGDSPNIPILINDERFSPAGVLAPKNAADLAFTMHMLSYSLSNSGTAAIVEFPGLVYRGNAEAKIR
EYLVKENVIDCVIALPDNLFFGTSIATCILVLKKNKQDDTTLFIDASKEFVKEGKKNKLKERNREKILQTYIERKE
IKHFCALANIEKIKENDYNLSVNRVVEQEDTKEAIDIKALNSEIAQIVEKQSALNRNRESIIKELEGGQNA

Seq ID 253

MLQNTINTQRYATKKLFENVNIKLDKNKRYGLIGANGAGKSTFLKILSKSIDCSSGEVITITSGMKMGVLGQDQYAF
EDLSLKDAVLIGNKRLYDAIKEKERLYTEGDLSDDKVNARLGELETICVEEDPMYCEVAIEKILEDLGIPSSKHN
DLMKTLPSDDKFKILLAQVLFPPKPDILLDEPTNNLDLNAIWELENNLKRHEGTMVVISHDRHFLNAVCTHILDLD
FHSVREFGSGNYDDWYLASTLIAKQQAERNKKLKEKEELEKFIARFSANASKAKQATSRQKQLDKLDIQSLAVSSR
RDPSIIFKPKRTIGNEALECENISKSYYDDQIVLNQVSLKVMKDKIALIGPNGVGKSTLCKILVEELKPDKGVVKW
GATVSKGYFPQNVSEEISGEETLYQWLFNFNKKIESAEVRNALGRMLFNNGEEQEKCVNALS GGEKHRMVLKXLMLE
GGNFLVLDEPTNHLDLBAIIALGEALFKFDGALICVSHDRELIDAYANRIIELVPSPKGASIIDFKGSYEEFLASK
K

Seq ID 254

MNKPFLILLIALIVFSGCNMRKYFKPAKHQIKGEAYFPNHLQESIVSSNRYGAILKNGAVIGDKGLTQLRIGKNFN
YESSFLNESQGFFILAQDCLNKIDKKTNSKVAKTEETELKLGVEAEVQDKVCHQVELISNPNNASQQSIVIPIPLE
TFALSASVKGNLLAVVLADNSANLYDITSQKLLFSEKGSPTTINSLMAMPIFMDTVVVFPMLDGRLLVVDYVHGN
PTPIRNIVISSDKFFNNITYLIVDGNMNIASGKRILSVVSGQEFNYDGDIVDLLYDKGTLYVLTLDGQILQMDKS
LRELNSVKLPSSLNTIIVLNHNKLYSLEKRGYVIEVDLNDDFSYNVYKTPITIGSFKFFSSNRLLDKGVFYDKNRVYD
RYLDYNDFKPKLYPVVEKSASKKSQKGEKGNAPIYLQERHKAKENKQPLEENKVKPRNSGFEEEEEVKTTRPEPIR
DQNNATQQGETKNNESKNAPVLKENAAKKEVPKPNKSKKEKRRLEKEKKKAKAEQRAREFEQRAREHQRERDEKELEE
RRKALEMNKK

Seq ID 255

MKRDFIKTTTLGATGAVLGAQILQAEESKGSVAKYKIEAQYSIDFDSAHTSLFIPMPSVVASNVHLQGNHASYK
SMLNFGVPYQLQVDFLKSTQKKQVHLSYEIASYQLNERLFETSDFVAMGRYERDDASVANIANQLKGTTPKESVRNF
YAFIKHEMPKRQKALEGKENLPKRESLPWFATISKESMFVSLCHACGIKSAEVQGLKLGQNSVVKNAPRVEVYLKD
SFLAFDFQNNHKEVFIPLNRHKMDQLDSALLATFGDAFALVDGRDLGNYESKLFKRVSTYIV

Seq ID 256

MVNKDVKQTTAFGAPVWDDNNVITAGPRGPVLLQSTWTFLEKLAADFDRERIPERVVHAKGSGAYGTFVTVDITKYT
KAKIFSKVGKKTECFRSTVAGERGSADAVRDPGRFAMKYYTEGNWDLVGNNTPVFFIRDAIKFPDFIHTQKRD
PQTNLPNHDMVWDFWSNVPESLYQVTWVMSDRGIPKSFHMDGFGSHTFSLINAKGERFVVKFHFHTMQGVKHLTN
EEAAEFVRKYDPPDSNQDRLFNALAGDFPKWKLSIQVMPEDAKKYRFHPFDVTKIWLQDYPLMEVGIVELNKNPE
NYFAEVEQAASFANVVPVPGIGYSPDRMLQGRFLSYGDTHTYRLGVNYPQIPVKNPCPFHSSSRDGYMONGYYSGL

QNYTPSSSLPGYKEDKSARDPKFNLAHIEKEFEVWNWDYRADDSYYTQPGDYRSLPADEKERLHDTIGESLAHVT
HKEIVDKQLEHFKKADPKYARGVKKALEKHQKMMKDMHGKDMHHTKKKK

Seq ID 257

MFLRVYPKLRVALCFPLLAETCYSEERTLNKVTTOAKRIFTYNNFEKVTSKELDQORSNEVKDLFRTNPDVNVGGG
SVMGQKIYVRGVEDRLLRVTVDGAAQNGNIYHHQGNFTVIDPGMLKSVEVTGAANASAGPGALAGVIKMETKGAAD
FIPRGKNYAASGAVSFYTNFGDRETFRSAYQNAHFDI IAYYTHQNI FYRSGATAMKNLFNPTQADKEPGTPSEQN
NALIKMNGYLSDRDRTLTFSWNMTRDNATRPLRSNAIGLAYPCEAPFSPDSSQGCNPVLDSTFRYMYHSINSANNLS
LOYKREAGNSFGDPRLDFTLYTSIRNAQFDPLFDPNGVYAKFPTSLASAWEKENYPCVEGAYCTPSFSDVDKPPSSQ
PRNLFNNITGLNLKVAHVIDEATDSLFEYGFNYQNLVSVDARI PKSELYRPNQVYTDKQKQIACSLVNNNNPNDP
TLCQRGKANGNIYGGYVQANYS PHKIITFGAGVRWDAYTLYDKDWNHRYTQGFSPSAALVLSPIEPLSLKITYSQV
TRGVMPGDGVYMRQNDLRYAKNIKPEVGSNAEFNIDYSSQYFSGRAAFYQALDNFISQYAQNLIVTNLSQAIRIY
GYEVGGTFRYKGVSLNVGVSRTWPTTRGYLMADSYELAASTGNVFI IKLDYTIPTKTGINLAWLSRFVTGLDYCGFD
IYLPDYGTAEKPKTPTDLAKCGSQLGLVHMHKPGYGVSNFYINWSPKTKSRWKGLLLSAVFNNVFNKFYVDQTSFY
VMSPPDMPGTDVAKRAIAEPGFNARFEVAYKW

Seq ID 258

MEIQQTHRKINRPLVSLALVGALVSITPQQSHAAFFTIVII PAIVGGIATGAAVGTVSGLLGWGLKQABEANKTPD
KPKDKVWRIQAGKGFNEFPNKEYDLYRSLSSKIDGGWDWGNAAATHYVWKGQWNKLEVDMDKDAVGTYNLSGLRNF
GGDLNVNMQKATLRLGLQFNGNSFTSYKDSADRTTRVDFAKNILIDNFLEINNVRVSGAGRKASSTVLTLOASEGI
TSSKNAEISLYDGCATLNLASNSVKLMGNVMMGRLOQYVAYLAPSYSTINTSKVTGEVNFNHLTVGDHNAQAQIIA
SNKTHIGTLDLWQSAGLNI LAPPEGGYKDKPKDKPSNTTQNNANNQONSAQNNNSNTQVINPPNSAQKTEIQPTQV
IDGPFAGGKDTVVNIDRINTNADGTIKVGGYKASLTNAAHHLHIGKGGINLSNQASGRITLLVENLTGNITVDGFLR
VNNQVGGYALAGSSANFEFKAGTDTKNGTATFNNDISLGRFVNLKVDHAHTANFKGIDTGNNGGFNTLDFSGVTGKVN
INKLITASTNVAVKFNINELVVKTNVSVGEYTHFSEDIGSQSRINTVRLTGTSTRSIFSGGVKFKSGEKLVIDEF
YYSWPWNYFDARNIKNVEITRKFASTPENPWGTSKLMFNNTLGLQNAVMDYSQFSNLTIOGDFINNQGTINYLVRG
GOVATLNVGNAAAMFFSNVDSATGFYQPLMKINSADLIKNKEHVLLKAKIIGYGNVSLGTNSISNVNLIBEQFKE
RLALYNNNNRMDICVVRNTDDIKACGTAIGNQSMVNNPDNYKYLIKAWKNIGISKTANGSKISVYYLGNSTPTEK
GGNTTNLPNTTNSNRSANALAQNAAPFAQPSATPNLVAIQHDFGTIESVFELANRSKDIDTLANSAGQGRDLL
QTLIDSHDAGYARQMDNTSTGEITKQLNAATTLNNTASLEHKTSSLQTLNLSNAMILNLSRHTNNID
SFAQRLQALQKQKQFASLESAAEVLYQFAPKYEKPTNWNANAIGGTSLNNGGNASLYGTSAGVDAYLNGEVEAIVGG
FGSYGYSSFNQANSNLNSGANNTNFGVYSRI FANQHEFDFEAQALGSDQSSLNFKSALLRDLNQSYNVLAISAAT
RASGYGDFAFFRNALVLKPSVGVSYNHLGSTNFKSNSQVALKNGSSSQHLFNASANVEARYYYGDTSYFYMNAGV
LQEFANFGSSNAVSLNTFKVNAHNPLSTHARVMMGGELKLAKEVFLNLGFVYLHNLSNIGHFASNLGMYRSF

Seq ID 259

MPQIQSSHSNHFDFTIDTADRTKLMSYLVVPTTANFNVMHGGELLNLLDKVAYVCSTRYCAKGTVTLSDGVTF
KYPFVGNLLTFLASINYVGNSTCEVGIKVLSEDIKTREITHTNSCYFTMVAVENGKPTPMPKYEPKTEVEIRRYE
GALKRKEMRTRGYLKSGKHEGV

Seq ID 260

LNNLDIKTLGQVFTPKKIVDFMLTLKHNHGSVLEPSAGDGSFLKRLKKAVERIEIDPKICPKNALCMDFFDYPLENQ
FDTIIGNPPYVKHDIAPSTKEKLHYSLFDESNLYLFFIEKAIKHLKPKGELIFITPRDFLKSTSSVKLNEWIYK
EGTITHFFELGDQKVFNPAMPNCVIFRFCKGNFSRITNDGLQFLCKKGILYFLNQSYTQKLSEVFKVKVAVSGCD
KIFKNEKYGNLEFVTSITKRTNALEKMFVNEPNDYLLQHKDLSLMQRKI KKFNNENNWFQWGRMHHSIPKKRIYVNA
KTHQKNPFFIHQCPNYDGSILALFPYNQNLDLQNLCDKLNAINWQELGFVCGGRFLFSQRSLENALLPKDFLNLG

Seq ID 261

MKQNLKPFKMIKENLMTQSQKVRFLAPLSIALSLSFNVPVGAEEEDGGFMFTGYELGQVQVQVKNPGKIKAEELAGLL
NSNTTNTNTNTNIAGTGNVAGTLGNLFMNQNLGNLIDLYPI LNTKNIHQCGTTNNGSSSATTAAATTNNGLCFQGNL
DLYNEMVGSIKTLSQNI SKNIFQGNNTTSQNL SNQLSLNTASVYLTYMNSFLNANNQAGGIFQNNNTNAYGNGV
TAQQIAYILKQASITMGPSGDSGAAAFLDAALAHVFNSANAGNDLSAKEFTSLVQNI VMNSQNALTLANNANIS
NSTGYQVSYGGHIDQARSTQLLNNTTNTLAKVTALNNELKANPWLGNFAAGNSSQVNAFNGFITKIGYKQFFGENK
NVGLRYYGFFSYNGAGVGNPPTYNQVNLTYGVGTDVLYNVFSRSFGSRSLNAGFFGGIQLAGDITYISTLRNSPQL
ANRPTATKQFLDFVGLRMNFGILKKDLKSHNQSIEIGVQIPTIYNTYYKAGGAEVKYFRPYSVYVWYGYAF

Seq ID 262

MAFKKARLISKFISKGSFKLNKISKKIIFTLNQILKCEKPLKRHKALKPIKLSNRNKSFLKASVLLIGALGGLSH
LRANECRYWSWSSWSYQDNIESGPNSTHNSYCLFSSTQSGSTYYLNTLTYSAGGASFTQKFNNGTNLVGENIRF
GGTGINGDVGYITGTGYDAQTINFNSSHLTGNSYADGGGATLNFNAANNITINQASFDNSHAGTQKSYMNFKGSN
IKVSGSSFTDDTDGGFSFGNSNNSTISFNQTSFNQGTYHFSNSATLSFNHSAFNQGTYNFNSTQSAFNNSAFNQ
TYHFNAGNASFDNDTFNQGTYSFNTSKVSFSGINTLNSSSPFASLKGVSFSGSDAIFNLNQTLLNQTYDILTNGAI
QYGVYQSYLWDLINYGDKAISHVEVGNNTYDVTDFINGQDETQETFNKQSIITQFLGDDLLQQAQKTYQDQLSN
SQSALNNAASDNKIANSDTYTKNKNATIKKDAQQGLNTNQQAQDEQALQGDLDKQLANSPTGFSEQAFNQAO
KQEQQDEQTLQNEEFTNSEQEGKLQAIQQAQQAQKQKQEQQQAQQTQYQEDLTHSQSALNDVASDNTIASNDT
NYTNNQNTAIKEDAQGLENTNQQAQQAQGDLDKQLANSPTGFSEQAFNQAOQKQEQQDEQTLQNEEFTNS
EQERLQAIANAKPTSPTPSHAPTPTKHTAPNTPPNKVPTPTPTQNPAPESVWSGVYWLQNKTYSNKGIYYIDPNL
SGQSGQSGNTLSTYTANLFGRSFSVNIQNGTLIIGNNTESVNSNGLIWIHGGFGYITGTFSAAANIYLTNNFKTGE

GVSNSDGGGANITFKASDNITMDGLNYNDAETVTKMIQTGASQHSYATFDALNNISVTNSSFSFDMTWGKFSFSAKN
 ISFSNASFSGFTNPGGSSVISANATNSLSFINSRLNGGAVYNLQANSIIFNNTQAVFNVLYSRGTSNFNATQTQLLG
 NTNFTLSSQSLLNFNGDITLQNNANITLGNKSQAFAFKNSLTLDNNSNLSLDNQSVLNANNTSAFNNQASLNITYNGS
 QATFNSLFFNGGTLNASSKLNASNASFSNNTTINLDDSVLSASNTSSLNANINFGASQADFGGNTIIDTASFN
 FDSASSLNFNNTLNGALNFGYTPSLTKALMSVSGQFVLGNNGDINLSDINIFDNITKSVTYNINLNAQKGITGIS
 GANGYEKILFYGMKIQNATYSDNNNIQTWSFINPLNSSQIIQBSIKNGDLTIEVLNPNASANTIFNIAPELYNYQ
 ASKQNPFGYSYDSDNQAGTYLTSNIGKGLFTPKGSQTPQAPGTYSPFNQPLSSLNINYNKGFSSENKTLGLGILSQ
 NSATLKEMIESNQLDNITNINEVLQLLDKIKITQVQKQALLETINHLTDNINQTFNNGNLIIGATQDNVNTSTSSI
 WFGNGYSSPCTLDSATCSSFRNTYLGQLLGSTSPYLGYNADFKAKSIYITGTIGSGNAFESGGGADVTFSANN
 LVNLKANIEBAQATDNI FNLLGQKGIEKIFNQGNLANVLSQVAMEKIKQAGGLGNFIENALSPLSKELPASLQNETL
 GQLIGQNNLDDLLNNSGVMNAIQNIISKLSIFGNFVTPSIIENYLAKQSLKSMDDKGLLNFIGGYMNASELSSI
 LSVVLKDIITNPPTSLQKDIGVANDLLNEFLGQDVIKKLESQGLVSNIIINNIISQGGLSGVYNQGLGSLVPSLQON
 ALKENDLGTLSPRGLHDFWQKGYFNFLSNGYVFNSSFSNATGGSLNLFVANKSIIFNQDNTIDFSKYQCALIFA
 SNDVSNINITTINATNGLSLNAGLNNVSQKGEICVNLANCPTTKNSSSTNSSVTPTNESLSVRANNFTFLGAIAS
 NGAIDLQVKNNSVIDTLNINENALQANNLTITNAFNNASNSTANINGNFTLNQOATLSTNASGLNVMGNFNSYG
 DLVFNLSHVSVAHINAQGSATIMANNNNPLIQFNTSSKEVGYTYLIDSAKAIYGYNNQITGGSSLDNLYLKYTL
 IDINGKHMVMTDNGLYNGQAVSVKDGGLVVGFKDSQONQYIYTSILYNKVKIIVSNP INNLQAPTQKQYIAQIQG
 TQGVDSIDQAGGSQAINWLNKIFETKGSPLFAPYLYESHSTKDLTTIAGDIANTLEVIANPNFNKNDATNLIQINTY
 TQOMSRILAKLSDTSTFASADFERLEALKNRKFADAI PNAMDVILKYSQRNRVKNVWATGVGGASFINGGTGTLY
 QINVGDRFIKSGVIVGYAAYGYSGFHANITQSGSSNVNMGVYSRAFIKRSELTMSLNETWGNKFTINSYDPLLS
 IINQSYKYDTWTDDAKINYGDFMFKDKSVIFKPKQIGLAYYYYIGLSGLRGIMDDPIYNQFRANADPNKKSVLITNF
 ALESRYHFNKNSYFYIADVGRDLFINSMGDKMVRFIGNNTLSYRDGGRYNTFASITGGEIRLFKTFYVNAGIGA
 RFGLDYKDINITGNIGMRYAF

Seq ID 263

MNTYKNSLNHFLNLVDCEKIPNVGKKSFAKMAHYHLGLENPYLALKITHALENALENLKTCSNALSSESEVCEIC
 SDESQRNSQLCMVLHPRDVFIEIDLKDFLGRYVVLNSIEEVDFALEKRLIEENIKEIIFAPPPTLANDSLMLYIE
 DKLQHFHLTFTKIAQGVPTGVNFENIDSVLSLRAFNSRIKA

Seq ID 264

LFKRMVLIALLGVFSSVLSAKSLRRDDGILVSDLGKMKSELSDAPAWVFEDAKAPYEEMGVAYIPVNNKYLIGIEQ
 ATLNAKLSLIVVFHEIMMKYKRFMEQFHESEQTNTNISYAIYNYLATKIQVSNYTNLKVSEAVVVKIKLVGCQIE
 QIKRYLKASVENLNDNELAYIAKVAQKEFGSVCALR

Seq ID 265

LKHLTPLTHTIFKALWLTALSASLSLAATESPTKTEPKPAKGVKNKPKSPVTKVMTNCDNIKDFNAKQKEVLKA
 AYQFGSKENLGEMAGIAWKESCAGVYKINFSDPSAGVYHSYIPSVLKSYPGHNDSPFLRNVMGELLIKDADAFASEV
 ALKELLYWKTRYHDNLKDMIKSYNKGSRWERSEKSNADAKEYEIEIQDRIRRLKESKIFDSQSSNDQELQKSANSN
 LLDLPIGNAMPQALIAKETKIEETOAEKSQEMKETTSEQTKSKPEKAKDKPMLAQINSTDFTPVKKS PKKPAKVS
 QKHSFKNNIKNNVKNNAKTASKKQEMCKNCSFGQRNAILANHTILMQEL

Seq ID 266

MIEWMQNHRKYLVTIWIISTIAFIAAGMIGWGQYSFSLSDSDSAKVGQIKISQEELAQEYRRLKDAYAESIPDFKE
 LTKDQIKAMHLEKSALDSLINQALLRNALDLGLGATKQEVAKIEKTSVFQKDGVFDEELYKNILKQSHYRPHKF
 BESVERLLILQKISTLFPKTTTLEQSSLSLWAKLQDKDLILILNPSDVKISLNEEEMKKYYESHKDKFKKPTSFK
 TRSLYFDASLEKPDLEKEEYHKNKVSYLDKEGKLQDFKSVQEQVKHDLMSQKANEKALRSYIALKKANAQNYTT
 QDFEENNSPYTAETITQKLTALKPLEILKPEPFKDGFIIVQLISQIKDELQNFNEAKSALKTRLTQEKTLMALQTLA
 KEKLKDFKGSVGYVSPNFGGTISELNQEEASAKFINALFNROEKKGFIAINNKVVLYQITEQNFNHSFSAESQYM
 QRLVNNTKTDFFDKALIEELKKRYKIVYIQ

Seq ID 267

VSPLKTIRIYSYHDSIKDSIKAVVNISTEKKIKNNFIGGGVFNDFPFQQFFGDLGGMIPKERMERALGSGVLIISKD
 GYIVTNNHVIDGADKIKVTIPGSNKEYSATLVGTDESDELAVIRITKDNLPITKFSDSNDISVGDVFAIGNPFGV
 GESVTQGIVSALNKSIGIGINSYENFIQTDASINPGNSGGALIDSRGGLVGINTAIISKTGGNHGIGFAIPSNMVKD
 TYTQLIKTKIERGYLVGLQDLQNSYDNKEGAVVISVEKDSPAKKAGILVWDLITEVNGKKVKNTNELRNL
 IGSMLPNQVRVTLKVIRDKKERAFTTLAERKNPNKKETISAQNGAQQLNGLQVEDLTQETKRSMLSDDVQGVLV
 SQVNENSAPAEQAGFRQGNITKIEEVEVKSADFHNHALEKYKGPKRFLVLDLNLQGYRIILVK

Seq ID 268

MSKSLYQTLNVSENASQDEIKKSYRRLARQYHPDLNKTKEAEEKFKBINAAEILSDEEKRRQYDQFGDNMFGGQN
 FSDFARSRGPSDELDDILSSIFGKGGFSQRFSQNSQGFSGFNFSNFAPENLDITAAALNVSVLDTLLGNKKQVSINN
 EFTSLKIPIGVEEGEKIRVRNKGKTGRTRGDLLLEIHIEEDEMYRREKDDITQIFDLPLKTALFGGKIEIATWHK
 TLTLTIPPNTKAMQKFRIKEKGIKNRKTSHVGDLYLQARLILPKTETLSNELKALLEKEL

Seq ID 269

MKQTTINHSVELVGIGLHKGVPVKLVLEPLGENQGIVFYRSDLGVNLPLKPNIVDTKMATVLGKDNARISTIEHL
 LSAVHAYGIDNLKISVDNEIPIMDGSALTYCMLLDEAGIKELDAPKKVMEIKQAVEIRESDFVKIEPDSQLSLN

FTIDFNHPVIAKQAHFVFSKTAYKEQVAKARTFGFLQEVNLYRSIGLAKGGSNNCIVLDENSILNKEGLRCEKE
FVCHKILDAMGDLMLGMPVMGKYTSFSGSHKLNMLVKAILADAKNYEVLLAADPAKEFALQKAF

Seq ID 270

VQPMKSKKLYLALIIGVLLAFLTLSSWLGNSGLVGRFGVWFAALNKKYFGHLSFINLPYLAWVFLLYKTKNPFTTE
IVLEKTLGHLLGILSLLFLQSSLLNQEIGNSARLFLRPFIFGDFGLYALITLMVVISYLLILFKLPPKSVFYPPYMNK
TONLLKEIYKQCLQAFSPNFSPKKEGFENTPSDIOKKETKNDKEKENRKENPINENHKTPNNEPFLAIPTPYNTTL
NDSEPQEGLVQISSHPPTHYTIYPKRNRFDLNTNPNPLKEIKQETKEREPTPKETLTPTTPKPIMPPLAPIIE
NDNKTENQKTPNHPKKEENPQENTQEEMIEGRIEEMIKENLKKKEKEVQNAFNPSVPTPTSACKPVMVKELSENKE
ILDGLDYGEVQPKDYELPTTQLLNAVCLKDTSLDENEIDQKIQDLLSKLRTFKIDGDIIRTYSGPIVTTFFFRPA
PNVKVSRILGLSDDLAMTLCAESIRIQAPIKGKDVVGIEIPNSQSQIYLRILESELFOKSSSPLTLALGKDIVG
NPFITDLKKLPHLLIAGTTGSGKSVGNAMILSLLYKNPPDQKLVMIDPKMVEFSIYADIPHLLTPIITDPKKA
GALQSVAKEMERRYSLMSEYKVKTIIDSYNEQAPSNGVEAFPYLIVVIDELADLMMTGKBAEFPIARIAQMGRASG
LHLIVATQRPSPVDVVTGLIKTNLPSRVSVFRVGTKIDSKVILDTDGAQSLGRGDMLETPPGANGLVRLHAPFATED
BIKKIVDFIKAQKEVQYDKDFLLEESRMLDTPNYQGGDILERAKEVILEKKITSTSFQRLQKIGYNQAATITDE
LEAQGFSLPRNAKGNREILQNF

Seq ID 271

MLENVKKSFFRVLCGALCLGGLMAEQDPKELVGLGAKSYKEKFTQAKKYFEKACDLKENSFCNGLVLYYQGGQ
VEKNLKKAAAFYAKACDLNYSNGCHLLGNLYSSGQGVSONTNKALQYYSKACDLKYAEGCASLGGIYHDGKVVTDR
FKKAVEYFTKACDLNDGDGCTILGSLYDAGRGTPKDLKKALASYDKACDLKDSPGCFNAGNMYHHGEGATKNFKEA
LARYSKACELENGGCGFNLGAMQYNGEGVTRNEKQAIENFKKGCKLGAKGACDILKQLKIKV

Seq ID 272

VKLPKALNEATAGAALKYHIKRALERSHSISDFSKNLELSTQKSHFSNNTLKIEELNNGVKQASBEIKEKARDFS
NQKLTNEQIKDLLNNAEIPITSGRDAITFGVNNLNPEIVEFLHKNKKMIIEKASNKELELLKDANFKHPENIRASL
DHDAIAHILKRHGVSNNVRNGEIPITNEDIANRYIVNNADAILRTLDNENKELISAFKQINGYAVVVEQAINKK
NELVLKTMYSKSGDYKDNNAKKSSTHTLNADAKVNHRLSSYSGATENTTQKDLIDQENLLKTSNENLNESTPKPT
NLSPLEQANAELAKLESEKLESEKEFLAKEQEATRKAALKKLEHERGNAGNIESQTKIEVGEDIPTQTQAQLP
KSRVRLNEREYIDLDYAIKAKDLKPSFTTGGTQKRTDMNEEQIKSIAENFDPKKIFGSGGFEDLPILHGDQVIA
GNHRIQGMNLNFTPKSRFSYERAIKEYYHIDLKPDDELLVRVPHKRLNNTTEINNLAASSNQGRFNSSEDHAIKAVLSHY
EAKLKELDQKLDADSIYSLKNIVAKNLFNFKATHPNVTDNLALLMFNMPRTKTQGIELLNRWKKEFSNDIKSYEK
VKKMFVDNAGSFHNLHDLNFPKVS LNAYLSDIMDRSFANLKNYQSTSES LKDLSEKFYKTSSELMFEKSDQSTSD
ISEILGGAIAIFARFDDPSKALFEALRS DNKKGLKDYKIADVTKDMFNADSKFKDIDIDYDFTHYLLMVNREPNE
NNPILKRLIEAVKDMQKESEKGIKQKLETPSEWGHNYSEFKGDGLGAINKLLLETKKFVAGAFHKEGLGIDILVYG
NSKYGLEHIFNRRESDAIDKGMSEKAKYALKIINNIPNIISNGKLSKDNLGRLSIEFENQVRVGLNDSWKGETLN
NRWVITSYEIDKSRNGLIESPLAPNYKGKDTNPLNLDSPNPTTKN

Seq ID 273

MGYASKLALKICLASLCLFSALGAHLEQKRNYYIKGEEAYNNKEYERAASFYKSAIKNGEPLAYVLLGIMYENGR
GVPKDEKKAAYFQKAVDNDIPRGYNNLGVMYKEBGRGVPKDEKKAVEYFRILATEKGYTNAYINLGIMYMEGRGVPS
NYVKATECFRKAMHKGNEAYIILLGDIYYSNDQLGIEPDKDKAIVYYKMAADMSSSRAYEGLAESYQYGLGVEKD
KKKAEYMQKACDFDIDKNCKKKNTSSR

Seq ID 274

MGGILSSLNTSYTGLQAHQSMVDVTGNNISNASDEFYSRQRVIAKPPAAAYMYGTKNVNMGVDVEAIERVHDEFVFA
RYTKANYENTYDTEFSLHKEASAYFPDIDEASLFTLDQDYFNSWKELSKNAKDSAQKQALAKTEALTHNIKDTR
ERLTTLQHKASEELKSVIKEVNSLGSQIAEINKRIKEVENNKS LKHANELRDKRDELEFHLRELLGGNVFKSSIKT
HSLTDKDSADFDESYNLNIGHGFNIIDGSIHPHPLVVKESENKGLNQVYFQSDDFKVTNITDKLNQGRVGALLNVY
NDGSGNTLKGLQDYIDLDSFAKGLIESTNAIYAQSASHYIEGEPVEFNSDEAFKDTNYNIKNGSFDLIAYNTDG
KEIARKTIAITPITTMNDIIQAINANTDDNQDNTENDFDDYFTAGFNNETKKFVIQPKNASQGLFVSMKNDGNTNF
MGALKLNPFFQGDASNISLNKEYKKEPTTIRPWLAPINGNFDVANMMQQLQYDSVDYNDKFDIKPMKISEFYQF
LTGKINTDAEKSGRILDTKKSMLLETIKKEQLSISQVSVDEEMVNLIKFQSGYAANAKVITAIDRMIDTLLGIKQ

Seq ID 275

MRYLWLFLIHTIGLFATDKTLDIIKTIQKLPIEVRSIDNDANYALKLHEVLANDLKTSQHFDVSNKQDQGAINY
AELKDKKVLHVALSVAVENGKNISRLKLYDVDGTGLKKTFDYPIVSLDLYPFAAHNMAIVVNDYLYKAPSIAWMKR
LIVFSKYIGPGITNLALADYTMRYQKEI IKNNRLNIFPKWANAEQTEFYTYTQYGERTPMILKYNIQKATHENIASS
QGMVAVSSVSSDGSKILMSLAPDGPQDVLYDTHKKTTKITRYPGIDVSGVFLEDDKSMAFVSDRSYGYPNIYMKK
LGLKESAEQLLYEGRSNESIDAYKDSIVYSRENLFEGKTVFNLNLITLNSKYIRRLTVNGSNQMPRFSTDRNT
MYIKKTPQEYAMGLILLDYNQSFLEFPLKNVKIQAFDW

Seq ID 276

MFQALSDGFKNALNKIRFQDDEKALDRALDELKKTLLKNDVHHKVARELLKKVESQTKLNGIGKQQFLDALEKSLI
EILSAGSSGFTFAQTPPTVVLMAQLQSGSKTTTAKLAHYLTKNKKVLLCACDLQRLAAVEQLKVLGEQVGVVE
FYEENKSVKEIASNALKRAKEAQFDVLLVDSAGRLAIDKELMQELKEVKEILNPHEVLYVADALSGQDGVKSANTF
NEEIGVSGVVLKFDSDSKGGIALGITYQLGLPLRFISGSEKIPDLDFVFPERIVGRMLMGAGDIVSLAEKTASVLN

PNEAKDLSKKLKKGQFTFNDFLNQIEKVKKLGSMSSLSMIPGLGNMASALKDTDLESSLEVKKIKAMVNSMTKKE
QENPEILNGSRRKRIALGSGLEVSEINRIIKRFDQASKMAKRLTNKKGISDLNMLMSQAKNQTPPKMR

Seq ID 277

MIMKQEBTTYQPREIEKKIYBICSHRGYFRIDGNBAIQEKNKRFCLMPPPNVTGVLHIGHALTLSDILARYKR
MDGYKTLYQPGLDHAGIATQNVVEKQLLSQGIKKEDLGREEFIKKVWEWKEKSGGAILLEQMKRLGVSAAFSRTRFT
MDKGLQRAVKLAFLKWYEKGLIIQDNVMVNWCTKDGALSDIEVEYEEERKALYIIRYYLENQDYLVVATTRPETL
FGDSALMVNPNDERYKHLVGQKAILPLIHRITPIIADHEVMEFPGTGCVKVTPGHDFNDYEVGKRHHLEFTIKIFDE
KGILNAHCGEFENLERLEARDKVVERLKENALLEKIEBHTHQVGHCHYRCHNVVEPYVSKQWVFKPETAQSSIEKIQ
QGLARFYPSNWINNINAWMRRLRPWCISRQLFWGHQIPVFTCENNHOQFVSLDTPLSCTCKSETLEQQDKDVLDTWF
SSGLWAFSTLWGQEQESGLFNESDLKDFYPNTTLITGFDILFFWVARMLFCSESLGELPFKDILYHALVRDEKGE
KMSKSKGNVIDPLEMIEKYGADSLRFTLANLCATGRDIXLSTTHLENNKNFANKLFNAASYLKLKQESFKDKERLN
EYQTPPLGRYAKSRLNSATKEARNALDNYRFNDATTLTYRFLWGEFCDWFIIEFSKVENEAIDELGSVLKBAKLHP
FMPFISESLYHKLSENTELENTESIMVMPYPKDLAQDEKLEHBEFEVIKDCIVSLRRLKIMLETPIIVLKEASVGLRE
AIENTERLQTYAQKLARLEKVSIVSSKPLKSVSDVGEFCQTYANLENLDLSPLVARLKKQLEKLEKEKLKLNHNE
NFVKNAPKSVLEKAKESLKTLLKESKIKQELDILLEQP

Seq ID 278

MKKTFLIALALTASLVGAENTKWDYKNKENGPHRWDLKHKDFEVCKSGKSQSPINIEHYHTQDKADLQFKYAASK
PKAVFFTHHTLKASFEPNHNINRGHDYVLDNVHFHAPMEFLINNKTRPLSAHFVHKDAKGRLLVLAIGFEEGKEN
PNLDPILEGIQKKQNFKEVALDAFLPKSINYHLTALSPLLLAQRGWHGL

Seq ID 279

MSKKIPLKNRLRADFTKTPDLEVPNLLLLQORDSYDSFLYSKEGKESGIEKVFSIFPIQDEHNRTILEYAGCEFG
KSKYTVREAMERGITYSIPLKIKVRLILWEKDTKSGEKNKIDIKEQSIIFIREIPLMTERTSFIINGVERVVVNQL
HRSPGVIFKEEESSTSLNKLIIYTGQIIPDRGSWLYFEYDSKDVLYARINKRRKVPVITILFRAMDYQKQDIKMFYP
LVKVRYENDKYLIPIFASLDANQRMEDLKDPOQKVILLAGKLTSRKIKELKENHLEWVEYPMIDILLNRHLAEPVM
VGKEVLLDMLTQLDKNLEKIHDLGVQEFVIINDLALGHDAIIQSFSADSESLKLLKQTEKIDDENALAAIRHK
VMKPGDPVTTEVAKQFVKKLFDPERYDLTMVGRMKMNHKLGLHVPDYITTLTHEDIITTVKYLMIKKNQKIDD
RDHLGNRRIRAVGELLANELHSGLVKMQKTIKDKLTTMSGAFDSLMPHDLVNSKMITSTIMEFFMGGLSQFMDQT
NPLSEVTHKRRLSALGEGGLVKDRVGFEARDVHPHYGRICPIETPEGQONIGLINTLSTFTTRVNDLGFIEAPYKKV
VDGKVVGETIYLTAIQEDSHIIAPASTPIDEENILGDLIETRVEGEIVLNEKSKVTLMDLSSSMLVGVAASLIPIF
LEHDDANRALMGTMQRQAVPLLRSDAPIVGTGIEKI IARDSWGAIKANRAGVVEKIDSKNIYILGESKEEAYIDA
YSLQKNLRTNQNTSFNQVPIVKVGDKVAGAGI IADGPSMDRGELALGKNVRVAFMPWNGYNFEDAIVVSECITKDD
IYSTHIYEKEVDARELKHGVEEFTADI PDVKEEALAHLDSEGTIVKVGTYVSAGMILVGTSPKEIKSTPEERLL
RAIFGDKAGHVNKSLYCPPSLEGTVIDVKVFTKKGYEKDARVLSAYEEEEKAKLDMEHFDRLTLMKEELLRVSSL
LSQAILEEPFHSNGKDYKEGDQIPKEELASINRFTLASLVKKYSKEVQNHYEITKNNFLEQKKVLGEEHEEKLSIL
EKDDILPNGVIKKVKLYIATKRKLKVGDKMAGRHNKGIVSNIVPVADMPYTADGEPVDIVLNPLGVP SRMNIGQI
LEMHLGLVGKEFGKQIARMLDCKTDFAKELRAKMLEIANAINEKDPLTTHALENCSDDEELLEYAKDWSKGVKMAI
PVFEGISQEKFYKLFELAKIAMDGKMDLYDGRTEGEMRERVNVGYMYMIKLHLVDEKVHARSTGVPYSLVTHQPVG
GKALFGGQRFGEVWALEAYGAHTLKEMLTIKSDDIRGRENAYRAIAKGEQVGESEIPETFYVLTKEQLSLALD
INIFGDDVDEDGAPKPIVKEDDRPKDFSSQTLTASPEKIHWSYGEVKKPETINRYTLKPERDGLFCMKIFGPT
KDYECCLCGKYKPRPKDIGTCEKCGVAITHSKVRRFRMGHIELATPVAHIWYVNSLPSRIGTLLGVKMKDLERVLY
YEAYIVKEPGEAAVDNEGTLVMKYDILNEEQYQNI SRRYEDRGFVAQMGGEAIKDLLEEIDLITLLQSLKEEVKD
TNSDAKKKLIKRLKVVESFNLNSGNRPWMLTVPVLPDPLRPLVALDGGKFAVSDVNELYRRVINRQLKRLM
ELGAPETIIVRNEKRMLEAVDVLFDNGRSTNAVKGANKRPLKSLSEI IKGKQGRFRQNLGKRVDFSGRSVIVVGP
NLKMDCEGLPKNMALFLFKPHLLSKLEERGYATTLKQAKRMIEQKSNEVWECLQEITEGYPVLLNRAPTLHKQSIQ
AFHPKLIIDGKAIQLHPLVCSAFNADFQDQMAVHVPLSQEATAECKVLMMLSSMNTLLPASGKAVAI PSQDMVLGLY
YLSLEKSGVKGEHKLFSVNEIITAIDTKELDIHAKIRVLDQGNIIATSAGRMIIKSILPDFIPTDLWNRPMKKKD
IGVLVDYVHKVGIGITATFLDNLKTLGFRYATKAGISISMEDIITPKDKQKMVEKAKVEVKKIQQYDQGLLTDQ
ERYNKIIDTWTEVNDKMSKEMMTAIAQDKEGFNSIYMMADSGARGSAAQIRQLSAMRGLMTKPDGSIITETPIISNF
KEGLNVLEYFNSHTGARKGLADTALKTANAGYLTRKLIDVSQNVKVVSDDCGTHEGIEITDIAGVSELIEPLEERI
FGRVLLLEDVIDPITNEILLYADTLIDEAGAKVVEAGIKSITIRTPVTCKAPKGVCAKCYGLNLGEGKMSYPGEAV
GVVAAQSIGEPGTQLTRTFHVGGTASRSQDEREIVASKEGFVRFYNLRTYTNKEGKNIIANRRNASILVVEPKIK
APFDGELRIETVYEEVVSVKNGDQEAKFVLRSDIVKPSLAGVGGKIEGKVLPYASGHKVKHGGSIADIIQEG
WNVPNRIPYASELLVKDNDPIAQDVYAKEKGVIKYVLEANHLERTHGIIKKGDMVSEKGLFAVIADDDNGREARHY
IARGSEILIDDNSEVSTNSVISKPTTNTFKTIATWDPYNTPIIADFGKGVGFVDVIAGVTVAEKEDENTGITSLVV
NDYIPSGYKPSLFLGANGEMRYFLEPKTSIAISDGSSVQAEVLAKIPKATVKS RDITGGLPRVSELPFEARKPK
KEDVAILSEVDGIVSFGKPIRNKEHIIVTSKDGSRMDYFVDKQKQILVHADEFVHAGEAMTDGVISSHDLIRISGE
KELYKIVSEVQVYRRQGVSIADKHIEIIVSQMLRQVRLIDLSGDSKFIEGDLVSKKLFKEENARSHALKGEPAA
EPVLLGITRAAIGSDSIISAASFQETTKVLTEASIAMKKDFLEDLKENVVLGRMIPVGTGMYNKKIVLRALEDNS
KF

Seq ID 280

MAKEKFNRKTPHVNIGTIGHVDHGKTTLSAAISAVLSLKGLAEMKDYDNIDNAPEEKERGITIATSHIEYETENRH
YAHVDCPGHADYVKNMITGAAQMDGAILVVSADGMPQTRHILLSRQGVPHIVVFLNKQDMVDDQELLELVEM
EVRELLSAYEFPDGTPIVAGSALRALEBAKAGNVGEWGEKVLKMAEVDAYIPTPERDTEKTFLMPVEDVFSIAG
RGTVVTGRIERG VVKVGEVEIVGIRPTQKTTVTGVEMFRKELEKEAGDNVGVLLRGTKKEEVERGMVLCKPGSI

TPHKKFEGEIIYVLSKEEGGRHTPFPTNYRPQFYVRTTDDVTGSITLPEGVEMVMPGDNVKITVELISPVALELGTKF
AIREGGRTVGAGVVSNIIE

Seq ID 281

VLIVQKYGGTSMGSIERIHNAQVRLESVTLGHQVVVVVSAMSGETDRILLEFGKNFSHNPNKREMDRIVSVGELVS
SAALSMALERYGHRASISLSEKEAGILTSSHFNQNAVIQSIDTKRITELLEKNYIVVIAGFQGADIQGETTTLGRGGS
DLAVALAGALKAHLCBIYTDVDGVYTTDPRIEKAQKIAQISYDEMLELASMGAKVLLNRSVELAKKLSVKLVTR
NSFNHSEGTLLVAEKDFKGERMETPIVSGIALDKNQARVSMEGVEDRPGIAAEIFGALAEYRINVDMIVQTIIGRDG
KTDLDFTIVKTIETKQALKPFLAQMDSIDYDENIAKVSIVGVGMKSHSGVASIAPKALAKDNINIMMISTSEIK
ISVLIDIKYAELAVRTLHAVYQLDQ

Seq ID 282

MKKHILSLALGSLVSTLSAEDDGFYTSVGQIGEAQMVTNKGIIQQLSDNYENLNNLLTRYSTLNTLIKLSADP
SAINAVRENLGASAKNLIGDKANSAPYQAVLLAINAAVGFVNNGVYVTCGGNANGQESTSSTTIFNNEPGYRSTS
ITCSLNGHKPGYYGPMSENFKKLNEAYQILQTALKNGLPALKENNGKVSVTYTYTCSGQGNNNCSPSVNGTKTTT
QTIDGKSVTTTTISSKVVGSIASGNTSHVITNKLDGVPDSQAALLAQASTLINTINEACPYFHATNSSEANAPKPFST
TTGKICGAFSEEISAIQKMITDAQELVNQTSVINSNEQSTPVGNNGKPFNPFDTASFAQGMLANASAQAKMLNLA
HQVQGAINPENLSENFKNFVTGFLATCNNKSTAGTGGTQGSAPGTVTQTTFASGCAYVEQTLTNLGNLSIAHFGTQE
QQIQQAENIADTLVNFKSRYSELGNTYNSITTALSKVPNAQSLQNVVSKNNPYSPOGIETNYLQNSYNQIQTI
NQELGRNPFKRVGIVNSQTNNGAMNGIGIQVGYKQFFGQKRKGARYYGFDDYNHAFIKSSFFNSASDVWYTGFGA
DALYNFINDKATNFIKGNKLSLGLFGGIALAGTSLWLNSEYVNLATVNNVYNKMNVANFQFLFNMGVRMNLARSK
KKGSDHAAQHGIELGLKIPTINTNYYSFMGAELKYRRLYSVYLVNFVAY

Seq ID 283

LDSFHSFNQHAFAHNRHAKTYHLFAHIQQQIAICLVQFLKQKHYAKVLDLGS GSGAVFNALERQNILIEEFIALDNSI
NMLKLHPHTSINIQTISLEHADFEHVFCTYDLVVSSSSLOWARDLKS VLEKIALSSKEVALAIHTDFSLHEVHRF
LGTPSPPLRDLKTLKSLIKNAFKHFQIELENKRFALYFNKQDCLNYLKKCGLLGGSTLSFKQKHHFQONMAFEKLS
YEVLLFSGIKRS

Seq ID 284

LSGFNPLNSPLVASSSLKEAYYLEKLSLKKGFKIHYKMTKDSLNLLEKSDLCVLFGGFSNACLNERWILES I
SHSKRPYALLRPLQDTRDLQENCLFASYEIHTEAAILALILRGILEQTSQ LKGHVLEKIDVGYLSSEANMSEBELQ
ELIALIVKAKKRALVLRREITKHANNAFLYTLSELQNYLEILHI PCYDSSATTAFYDFKDQEWLLETAFKEGILP
FKSQLQSKDLELLERISEANGSFVYVSYKSLLETPKLSFSKQFKIANKIEHSGAGFQISNQTLECELEENPHLKLGI
AILEGAFFDAYPIPIILSHSQGIS

Seq ID 285

MISLIEKAPYIPYPLALYEKLEQPHLTLLFESAEIESKAHTKSLLMAKACLKLCNHNIVTITS LTPNGGAFLQKLS
AFFKTPIQDNALILTYTKNKTQDEFLKLFEPSPFDALRGLFKSVKTKPKHPFTLLSAGVFSFEMLNFFEDLPHLK
AKDNFVDFIFYLQNLIIIDHKEKSVEILGACFDERFKTEIAQELQDLKELAKSIKSDFPVKKSQKSREVSANCS
DSEFEKRVLSLQERIKKGEIFQAVLSRSFYMECLEGLSAYYHLKLTNPSPYMFYIKDSDFILFGASPESALKYNAL
TNTAETIPIAGTRLRGKDKQGNIDYDLDSKMEFDLOHDYKERAHEIMLVDLARNDMARVSKKRYCDKLLKVDKYSN
VMHLVSRVVGELKKGCDSLHAYRSFMNAGTSLGAPKISAIRLIYQLENQRRGSYGGSVGYLNSGSMDSCTITRSC
FVKNNRAVIQAGAGIVLDSVPQNEANETRAKAQALIDAIRKTSI

Seq ID 286

MIEKIIDL SVKNKLLTTLVTLLIFLASLWAIKSVRLDALPDLSPAQVVVQITYPNQSPKIVQE QVITYPLVSTFMSI
ANIDTVRGISSYESGLIYIIFKDGVNLYWARDRVLEQLNRVSNLPKDAKVEIGSDSTSIGWAYQYALSSDSKNLSD
LKVLDQDFYRYALLGVDGVSEVASVGGFVKDYEVTLQNDSLIRYNLSLEQVANAIKNSNNDTGGGVILENGFEKII
RSHGYIQSLKDLLEEIVVKEGAIPKIKDIASVRLTPKPRGAANLNGDKKEVVGGLVMVRYHADTYKVLKAIKEKI
ATLQASNPDVKITSYDRSELIEKGIDNLIHTLIEESVIVLVI IAFLLHFRSALVVIITLPLSVCISFLLMRYFN
IEASIMSLGGIAIAIGAMVDAAIVMVENAHKHLQHDVDKNAQRVNGIIEGVKHVGGAIFFALMIIVVSFLPIFAL
TGQEEKLFAPLAYTKTFAMLVGALLSITMVPILMVWLKGRILEESKNPINAFFMKIYGVSLNVVLKFRYAFLIAS
VLGLGGLYVAYKLNWEFIPQINEGVVMYMPVTINGVSIDTALEYLKKSNSAIKRLDFVKQVFGKVGGRANTSTDA
GLSMIETIYIELKPQNEWKEKLSYKEVRDKLEKTLQKGLTNSWTYPIRGRTDMLLTGIRTPGLIKLYGNDTKLQE
LAILMEQQLKTLKESLSVFAERSNNGYYITLDLNDENLARYGINKKAVLDAIKFALGGATLTTMIKGVENYPISLR
LEDTERNTIEKLNLYIKTAYNYMPLRELARIYYDNSPAVLKSEKGLNVNFIYIVPQNGISSDAYROLAQKALEKI
QLENGYFFEFSGESQYLEAFKTLQYIVPVSVFIIFILIVFALKNLNSLLCFFTLPAFLGGLIFMNLGMFNMSV
AALVGFLALLGVASETAIVMIIYLEDAFQKFIKTPLKEQNSTTLKEAIMHGAVLRVRPKLMTFFSILASLIPIMYS
HGTGSEIMKSLAAPMLGGMISVVLTFLFIPTAYFVIKNAGIKSNQT

Seq ID 287

MSVSHVALILRKL FYHRQGVFMGGFSVGMLKDYVDIFVFAVLGVASFLALWFAIERVIFYSKVDLKAYDDIDALNL
DLTKNLITILYVIFSNAPYVGLLGTVLGIMVIFYDMGVSGGMDARTIMVGLSLALKATAGLAVAIPTLIAYNSLLR
KSDVLSEKFRIMKK

Seq ID 288

MKISPSPRKLSKVSTSVSFLISFALYAIGFGYFLLREDAPEPLAQAGTTKVTMSLASINTNSNTKTNAESAKPKEE
PKEKPKKEEPKKEPKKEVTKPKPKPKPKPKPKPKPEPKPEPKPEPKPEKVEEVKKEEPKKEPKKEEAKKEAK
EKSAPKQVTTKDIVKEKDKQEESENKTSEGATSEAQAYNPGVSNFELMKIQTAISSKNRYPKMAQIRGIEGEVLVSF
TINADGSVTDIKVVKSNFTDILNHAALAIKSAHLFPKPEETVHLKIPIAYSLKED

Seq ID 289

MKKSLLLSLSLIASLSRAEDDGFYTSVGYQIGEAQQVKNLTGALQNLADRYDNLNNLLNQYNYLNSLVNLASTPSA
ITGAIDNLSSSAINLTSATTTSPAYQAVALLNAVGMWQVIALFIGCGPGPTNNQSYQSFGNTPALNGTTTTCNQ
AYGTGPNGLISIDYQKLNQAYQIIQTALNQNGGGMPALNDTTKTGVVNIQQTNYRTTTQNNIIHYTTENGKEI
PVSYSGGSSFSPTIQLTYHNNAENLLQQAATIMQVLIITQKPHVQTSNGGKAWGLSSTPGNVMDIFGSPFNAINEMI
KNAQTALAKTQQLNANENAQITQPNMNFNPTYSKDKGFAQEMLNRAEAQAEILNLAKQVANNFHSIQGPIQGDLEEC
KAGSAGVITNNTWGSAGCAVKEITLNSLEQHTAYYGNQVNDRALAQITLNFKEALNTLNKDSKAINSGISNLPNAK
SLQNMTHATQNPNSPEGLLTYSLDSSKYNQLQTLAQELGKNPFRFQVIDFQNNNGAMNGIGVQVGYKQFFGKKRN
WGLRYYGFFDYNHAYIKSNFFNSASDVWTVYGVGMDALYNFINDKNTNFLGKNKLSVGLFGGFALAGTSWLNSSQV
NLTMNGIYNANVSTSNFQFLFDLGLRMNLARPKKSDHAAHQHGIELGFKIPTINTNYYSFMGAKLEYRRMYSLF
LNYVFAY

Seq ID 290

MLAKMSFMQNVKNIQEVESHKRVLRVDFNVPLDENLNTDDTRIRESLPTIQYCIDNKAKDIIIVSHLGRPKGV
EEKLSLKPFLKRLERLLNHEVVSQNIQVLKQALNENAPTRIFLLENIRFLRGEENENDENLAKDLASLCDVFNDA
FGTSHRKHASTYGTAKFAPIKVSGFLLKKEIDSFYQAFNHPLRPLLLIVGGAKVSSKLTLLKNILDLDIKLIAGA
MSNTFLKALGYDVQDSSVEDALINDALELLQSAKEKKVYLPIDAVTTDDILNPKHIKISPVQDIEPKHKIADIG
PASLKLFEVIESAPTILWNGPLGVHEKQEFARGTTFLAKHIADTYAFSLIGGGDTIDAINRAGEKDNMSFISTGG
GASLELLEGKILPCFEVLDKRH

Seq ID 291

VVLLTMTKRLFKGLLAVSLAVSLHGGEVKEKKPVKPKVEDPQELAAKRVEAFSRFSNVVSEIEKKYVDKISISEIM
TKAIEGLLSNLDAHSAYLNEKKFKFQAQTEGEFEGGLGITVGMRDGVLTVIAPLEGTTPAYKAGVSGDNILKINNE
STLSMSIDDAINLMRGKPKPTPIQITVVRKNEPKPLVFNIIRDIIKLPSVYVKKIKETPYLYVRVSGFDKNVTKSVL
EGLKANPKAKGIVLDRGNPGGLLNQAVGLSNLFIKEGVLSVQKGNKEENLEYKANGRAPYTNLPIAVLVNGGSA
SASEIVAGALQDHKRAVIIGKTFGKGSVQMLLPVNKDEAIKITARYYLPSGRTIQAKGITPDIVYIPGKVPENE
NKPSLKEADLKHHLQELKKIDDKTPNSKEADKDKKNEEKEITPKMINDDIQLKTAIDSLKTWSIVDEKMDKAP
KKK

Seq ID 292

MNETLYCSFCKKPESRDPKKRRIIFASNLNKDVCVCEYCIDVMHGEHLHKYDNSLLALKRDLRRMESSAYEEEFLL
SYIPAPKELKAVLDNYVIGQEQAQKVFSVAVYNHYKRLSFKEKLLKQDNQDSNVELEHLEVELELSKSNILLIGPTG
SGKTLMAQTLAKHLDPPIAISDATSLTEAGYVGEDVENILTRLLQASDWNVQKAQKQIVFIDEIDKISRLSENRSI
TRDVSSEGEGVQALLKIVEGSLVNIIPKGGGRKHPEGNFIQIDTSDILFICAGAFDGLAEIKKRTTQNVLGFTQEKM
SKKEQEAIIHLVQTHDLVTYGLIPELIGRLPVLSTLDSISLEAMVDILQPKKNALIKQYQQLFKMDEVLDLIFEEEA
IKETAQALALERKTGAGRLRAIIEFDCLDIMFDLPKLKGSEVRITKDCVLKQAEPLIIAKTHSKILP

Seq ID 293

MRDFNNAQITRLKVRQNAVFEKLDLEFKDGLSAISGASGVGKSVLIASLLGAFGLKESNASNIEVELIAPFLDTEE
YGFIREDEHEPLVISVIKKEKTRYFLNQTSLSKNTLAKLLKGLIKRLSNDRFSQNELNDIIMLSLLDGYIQENKA
FSPILGALIEEKFTRLKLEKERRILLEDKKRFQKDLERLNFEKMKLERLDLKEDEYERLLEQKLLSSKEKLNDRK
ALALEVLENTHKITHALESVGHSAEFLKSALLEASALLEKEQAKLEECERLDIEKVLRLGMLSGIICKDYGSIHHA
KERLGHVKNELHNLKEIDSHCETYHKEIERLKTECLKCEEISGFRKEYLAGFNALLSAKADILLKSPSLVLEDA
PMSEKGAQKLVLNLQNSQLETLSSGEYSRLRLAFMLLEMEFLKDFKGVVLVDEMDSNLSGEESLAVSKALETLSSH
SQIFAISHQVHIPALAKNHILVFKENHKS LAKTLNNEERVLEIARMIGGSENIESAISFAKEKLKQAE

Seq ID 294

MPDELRAEKSFPSPKPYDSLKNKSEFDRVYQKGFKHNPFFSLFVLDSLQEPPEKAGFKDPLFCRLKDKKTLYLIG
LSVSKKVGNAVKNRLIKRRLSLTLKHAALCQGLALVFVPRSDCYHLDFWALEKHFLLEMLTSIKNYMKNALKDLKK
GITHTYAKQ

Seq ID 295

MLKLASKTICLSLIGSFTAVEAFQKHQKDGFFIEAGFETGLLQGTQTKETIATTQEKPKPKPKPKPITPQSTYK
YYISQSTVLKNATELFAEDNITNLTFFYSLTPVYVYAYNQESAAEAGYGDSSLIQNFPLYNLNNIELSYTDNQGN
VVISQVIEFTPKQSQIILPASLFNDPQLNADGFGQLQATATTFRSDASTQNLFDKLSKVTTNLQMTYINYNQFSSGN
GSGSKPPCPPYENQENCTAKVPPFTSQDAKNLTNLMNMMAVFDKSWEDAVKNAPPQFSDNNLSAPCYSNYSTCV
NPYNDGLVDPKLIKKNKGDEYNIENGQTGSVILTPQDVIYSYRVTNLYVNLPPRGDDLGLGSQYGGPNPGDDG
TNFGALGILSPFLDPEILFGKELNKVAIMQLRDIIEHYGHTLGYTHNGNMTYQVRVMCEENNGPEERCKGGKIEQV
DGQEVQVFDNGHEVRDITDGSFYDVCSRFGGQNPAPFPSSYPNSIYTDQSVQVAGLIGVTSVAVWQQLIDQNALPVDY
TNLSSQTNLYNASLNTQDFATMLSAISQSLSSSTRSSATTYTSKTSRPFAGPLLVNLMGYQKYFNDYLGSSY
GIIKYNYAQANNEKIQQLSYGVGMDVLFDFITNYTNEKNPKNNLTKKVFTSSLGVFGGLRGLYNSYLLNQYKGGSG
NLNVTGGLNRYKHSKYSVSGISVPLVQLKSRVSSDGATTNSITLNEGGSHPKVFFNYGWIF

Seq ID 296

MKKIILACLMAFVGANLSAEPKWYSKAYNKTNTQKGYLYGSGSATSKEASKQKALADLVASISVVVNSQIHQKSR
VDNKLKSSDSQTINLKTDDLELNNVEIVNQEVQKGIYYTRVRINQNLFLQGLRDKYNALYGQFSTLMPKVCKGVFL
QQSKSMGDLAKAMPIERILKAYSVPVGSLENYEKIYYQNAFKPKVQITFDNNGDABIKSALISAYARVLTPSDEB
KLYQIKNEVFTDSANGITRIRVVVSASDCQGTPVLNRSLEVDEKKNFAITRLQSLLYKELKDYANKEGQGNTGL

Seq ID 297

MKENKAFTHLHLHTEYSLLDGANKIKILAKRVKELGMKSVSVTDHGNMFGAIDFYTSMKKEGKIPIGMEAYIHND
DNLSSKETKQRFHLCLFAKNQEGYENLMFLSSMAYLEGFYFFPRINKKLLKEHSGIILASSACLQGEVNYHLNTNN
ERNRKYGAKGYDEAKKIACEYQEIFEDDFYLEIMRHGILDQRFIDEQVIKMSLETGLKIIATNDTHYTMPNDAKAQ
EVAMCVAMGKTLNDKGRLLKHSVHBFYIKSPREMAKLFADIPALENTQELADKCVLEIDLKDDKKNPPTPPSFKFT
KAYAQNEGLNFEDDASYFAYKAREGLKERLVLVPKEKHQYKERLEKEIEVITNMKFPGYMLIVWDFIRYAKEMGI
PVGPGRGSAAGSLVAFALKITDIDPLKYDLLFERFLNPERISMPDIDTDFCQRRRKEIEYMIKEYGKYNVAQVIT
FNKMLAKGVIRDVAVRLDMPYKEADDFAKLIPNRLGITLKGYEKNGEFIEGAWELEPKIKELVESNELAKQVWEYS
LNLNENLRNAGVHAAALVVDSSQELWHKTPLFASEKTTGGIVTQYSMKYLEPVDLIKFDLGLKTLTVIDDALKI
TQHKISVDFLSLDMDDPKVYKTIQSGDTVGIFQIESGMFQGLNKRRLRPSSFEDIIAIIALGRPGPMESGMVDDFVN
RKHGVEPIAYAFKELEPILKPTYGTIVYQEQVMQIVQTIGGFSLGADLIRRAMGKKDAQIMADNKAQFVEGAKNL
GHDGQKAANLWDLIVKFAGYGFNKSASHAAYAMITFQTAYLKTYKHEFMAAMLTSESNKIESVARYIDEVRALEIE
VMPPHINSSMQDFSVAEFKNQKGELEKKIVFGLGAIKGVGGEPIKNIIEERAKGDYKSLDFISRVDFSKLTKKSL
EPLVKSGSLDNLGYTRKTMLANLDLICDAGRAKDKANEMQGGNSLFGAMEGGTKEQVVLDMIDLGEHDAKTLLLEC
EYETLGIHVSNGNPLDEFKEEIKGFKNLVKSIDIEELEIGSQAYLLGKIMEVKKKIGKRSGKPYGIADILDYRGKFE
LMLFEKQNLNALEELDINKPLVFKCKIEEQEVEVRLRLFEILDLESAREVKIPKARYKDPKQKEEVRREIPPMEMLA
SSSCSLAIVLENDVKKEFLRQIKESALKHQGKRPLYLIKDKDKQFKIQSDLMVNEKIKDDFKGLEWRDLA

Seq ID 298

MTLLVGLGNPTLRYAHTRHNAFGDILDSLSELDLSFTFSPKHNAFLCVYKDFIFLKPQTYMNLSGESVLSAKNFY
KTKELLIHDDLDLPLGVVRFKNGGNGGHNGLKSIDLLCSNSYYRLRVGISKIGIVIEHVLKSFHKNEEPLKNAA
FEHAKNALKFFIESHDFNAMQNRFTLKKPLKIES

Seq ID 299

MKKSCLCSFPLTFSNPLQALVIELLEEIKTSPHKGTFAKAVLDSKKPRQVLGVYNISPHKKLTLTITHISTAIVYQ
PLDEKLSLETTLNPNRPTIPRNTQIVFSSKELKESHPHQMPSLNAPMQKPQNKPHSSQQPSQNFSYPEPKLGSKNS
KNSLLQPLAIPSKISPTNETQTPNTDKPPLKHSSSEDQESNLFITPTEKTLPNNTSNADISENNESNENKDNVEK
QAIRDANIKKEFACGKWVYDDENLQAYRPSILKRVEDKQTATDITPCDYSTAENKSGKIITPYTKISVHKTEPLEE
PQTFEAKNNFAILQARSSTEKCKRARARKDGTTRQCYLIEEPLKQAWESYEYITTQLVKAIYERPKQDDQVEPTFY
ETSELAYSSTRKSEITHNELNLNEKFMEFVEVEYEGHYLNDIKESSEYKEWVKNHVRFKEGVCMALIEEQPRAKS
TPLSIENSRRVVCVKKGNLYLFNEV

Seq ID 300

MNAFKRIISVGVIALGLFNLLDAKHHKEKKENHKITRELKVGANPVPHAQILQSVVDDLKEKGKILVIVSFTDYVL
PNLALNDGSLDANYFQHRPYLDRFNLDKRMHLVGLANIHVEPLRFYSQKITDIKNLKKGSVIAVPNDPANQGRALI
LLHKQGLIALKDPSNLYATEFDIVKNPYNIKIKPLEAALLPKVLGDVDGAIITGNALQAKLTGALFSEDKDSPYA
NLIAAREDNAQDEBAIKTLIEALQSEKTRKFILDITYKGAIIPAF

Seq ID 301

MKNLRYKLLLFVFIGFWGLLALNLFILSVKNQEYIEKLAERNMTKKEFLVPTRGNITDRNDEFLATNELVFGVFLP
SGLKQKDLLEKIEIIQKFFPNFNSKETLLNNYQKENSLYNHNLIKVGFIPIYATMQPLYAKLIQTQGFALPLDKRY
YPNNALASHVLGYGVVASLQDLKDEENQYSQIVGKTGIEKEYNKLLQGVGYKIMRVNALNQELATLEVVLPSN
NHLQLSLDKRLQKEADKLFENKRGAILVMDAENGELLVAGSYPEYNLNDFVGGISQDKWQLQDDIYNPLNRRFAN
ALYPGGSVVKMGVGLSFLNHLHITENTTIPTPPFIEVGKHKFRDWKKTGHGNSNLYKAIRESDVVFYKFGLEISI
EKLSTLREVGFGEKTGVDLPNEFVGIVPDNLWKLKRFNQDWRVGDTLITAIGQGSFLATPLQVLAYTGLIATGKL
ATPHFAINNKOPLKDPNLSFQKKKLQALRVGMYEVCNHKDGTAHYHSTRGSKITLACKTGTAQVVEIAQNIIVNRMEK
KDMFYFHRSHAWITAFLPYEKPKYAITILVEHGEKGSGLGGLLVKMSNKLVELGYL

Seq ID 302

MFSGLIHQIAKVKSFHNNILNIESDLNPKLGDSIAINGACLTAEISSKTHFSVELSQKTQNSVALENYKDLVHIEP
ALKADASLDGHFVQGHIDAIGVIEKIIHNANQVDFISASEETLLLCVEQGSIAVDGVSLLTSKVVEKGFWLTIIIP
YTLENTLFKAYKLKRRVNIETDMLVRSVASILKKTGKGFBNKFSWNEADALTGY

Seq ID 303

KKSERFKIELKPFKKRPNRGHRRALFQAYRSGFAFRSH

Seq ID 304

WFAKKDFSASWATKRAF

Seq ID 305

NLQTHLKRLLKRSEFVGQKGIIRGHGEVFFKRNFNAPYLIIGFTGLDFWQTFRLACECDGFDCHGFNGVL

Seq ID 306

TQAIILKKNQAWGRGWIMRGVASIINSRE

Seq ID 307

AMWILLKTSKTRNSKRIWNLKGLMSQSPLSLPLFITLGALSPLKKK

Seq ID 308

KKKSKNSKNSPWAOKCLSMCGV

Seq ID 309

KKLIKSLALKKDTAIVMKSTPNTAKSGKIRA

Seq ID 310

RGATPPRKKTLFLKKPSVLSRPNS

Seq ID 311

SAQPPSLKRSLGGLKAMA

Seq ID 312

KHDHGFVVRHSREF

Seq ID 313

AKNTALKSLALGIRAMAMCM

Seq ID 314

RFRQNLRLRYGSIGLQQLFIHRKPHYQNKSNLNLGFDYHRLIRASQWVLQHSKSAQQTQR

Seq ID 315

SSVSSKKPAKNSLTRFLSSQGIILTAMNTLKTICISLNPCLFYMPLL

Seq ID 316

KWNISTPKPPPKNGAIGWGIISLLSKTILILGI

Seq ID 317

KTRWIPTEKWRNSTMEARRPFFRPFN

Seq ID 318

KNFRAHDFERRDCQYFYSVWRRAMGDSSSYHASGWAKLRGGSGSGFYGYRLGRCLDEYDTAFLGFARFSHCGFGR

Seq ID 319

KARLKRFFQIIPILISAELQAMR

Seq ID 320

RAPFRREPWRLLGGCCNL

Seq ID 321

FTRHKQTSRSKRSKSLSVKNGVR

Seq ID 322

FFSYIQYERRSSGYHRAWPFFRERFD

Seq ID 323

RDLLAIPQRFARKQAFKKPSL

Seq ID 324

KSPKKATKKRF

Seq ID 325

ALEQDERFTRGG

Seq ID 326

PISCKAPKFVVSLENSGMPLDLGPWKGTATKSLNSLFLKRSKNSLWVLKTIALALTFLCSSLMAELITALPKL
PFKILSPPLAAKGSITGRKISVFRL

Seq ID 327

KSITSRQAIKPILRA

Seq ID 328

FKTLVELFKSQIPGAFRKHSHPRHSNFSVFKKSGKSGV.

Seq ID 329

NAIMKPKKPQYLKNSLSSNFMITPLLKSKP

Seq ID 330

IKALKPSLFFERLNSLN

Seq ID 331

AMLFFRFVTVSPTYAQAPQVLEVTVPDGVPRRLPSLPFSWHTPKESFTNAAGILSKSFTTA

Seq ID 332

GLFQNLTPHSKTPRSLRRANALKQKRVLTPLLAC

Seq ID 333

FVGPEVPPIATPKKNPKCKFSRLKIAGLNNTSVPAP

Seq ID 334

IRAFFKGVNLANFIDYGRDSRIFGSDDFISGVSGSGEFACKKTPVFGYFAIDLKIPFANGCLVVLISIQPFKRPSHQ
IAVRKTPVFQKRVQFAGIKTRL

Seq ID 335

KFFSNHLRRKVVFIDISLHVNAFLAHSNKSHSMQQSVKAIF

Seq ID 336

SVGVKKSPPNSTSA

Seq ID 337

TLTCKKVASKRALICALISLTLNTSTSSPFYSKRVSLKSPKNMIKTKNPTPASHNAFCMGVGKVI

Seq ID 338

ASMSLSNPVPLGIAAVTPTIFSSFLANSKRVLLEYASVGDKIALLDFLDKPVSKSKGPTPCHFS

Seq ID 339

IFLSNTSLCMGRNTCNTKSNENALASLNTSKKSMHSKRALLKSFNFSCAFLSMGMELSIPTSSISCWICRLSAIK
KFPVEQPKS

Seq ID 340

RDFQVLKHLHPFFFIPTQAMIHKNSDQIILNGSVQQRS DHRIHAPTHRAQNLVS DFFFQSCDFSLSEMLHP
SFFTAN

Seq ID 341

IIHMRGDHSHMPSFFQRFKTKRCHRSAITGVFKTIHD

Seq ID 342

IIIPAVLANDHAHINLRLGVDKKRASFLDIEKGKSGRFAIFHAD

Seq ID 343

KNRPSKNPLAQNAVVSALAPGKTSY

Seq ID 344

KPSSVWIYKPIIRGKNIQTIPS

Seq ID 345

SSVSSKKPAKNSLTRFLSSQGIILTGAMNTLKTICISLNPCLFYMPLL

Seq ID 346

RARSRLGFFLLKASCKTPHKSLNFHLSNSKQGKWRIKFWK

Seq ID 347

VSEILSTLVSPSKLPEEPKAKLMRWGASAPFLGSNCKRGGFMPASDPSLLKCKRPPSNTLGLAADPPTNSPGSGTI
TLKFHSAPPL

Seq ID 348

LPNLNKKISSSSFTKYTSKTSGLMWHSLKGFHFFPKA

Seq ID 349
SRFRERVAALFTKRAQRKRFRHSFIA

Seq ID 350
NIHWPHAPNRSLLNPKIVAGNPSSLEYRFALNSPQKAPQHR

Seq ID 351
PISCKAPKFVVSLCNSGMPLDLGPWKGKTATKSLNSLFLKRSKNSLWVLKTIALALTFLCSSLMAEILITALPKL
PPKILSPPLAAGSLTGRKISVFRL

Seq ID 352
ESLVLKPILGKRRCKGCCPPSKPLLAL

Seq ID 353
GSNERSHKERLSIQTHRIASRDFDICPL

Seq ID 354
LGGNKSFTLYSHHTSQPFPSKRIATCSKTSLSKQGLFVRLSMKKASGTPHFLCRLKHQSGRFSIMVFRRFFPLIGT
NSTFSIASKATSLKVF

Seq ID 355
AFVLKPCKKACSWSFKFSLANSTLESKLLYSFK

Seq ID 356
ESSISLILSKIMIVSLMEYPIKVSKAAITSKFISILKTITELATKITSCTSAMTLAKAKRHS